

Southern California's Computer Magazine

Dec. 10, 1990 • #77

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TURBO SYSTEM w/20 MB Hard Drive

- IBM XT Compatible
- 31 MHz CPU
- Phoenix Bios
- 640K RAM on Board
- 360K or 720K Floppy Disk Drive
- 150W Power Supply
- Parallel Printer Port
- Game Port
- Serial Port
- 101 Enhanced Keyboard
- Clock & Calendar
- Desktop Case w/Reset Button, LED Light & Keylock
- Seagate ST 225 20 Meg Hard Drive
- 12" Amber Monochrome Monitor
- Hercules Compatible Graphics

\$769



PACER 286-12

VERTICAL SYSTEM w/40 MB Hard Drive

- Full Size Case w/200w P/S or Vertical Case
- 6/12 MHz Turbo AT Motherboard
- 1 MB Zero Wait State RAM On Board
- Expandable to 4 MB
- 8 Expansion Slots Available (5 available)
- 0 Wait State
- 80287 Coprocessor Socket
- 101 Key Enhanced Click Keyboard
- Serial, Parallel and Game Ports
- 12" Amber Monochrome Monitor
- Hercules Compatible Graphics
- 1.2 or 1.44 MB Floppy Drive—5 1/4" On Board
- 40 MB 28ms Hard Drive
- Hard & Floppy Drive Controller
- Clock, Calendar w/Battery Backup

\$969



PACER 386-SX

SYSTEM w/80 MB Hard Drive

- Full Size Desktop Case w/200w P/S or Vertical Case
- 8/16 MHz 80386SX Motherboard
- 1 MB Zero Wait State On Board
- Expandable to 8 MB
- 8 Expansion Slots (5 available)
- 0 Wait State
- 80387SX Coprocessor Socket
- 101 Key Enhanced Click Keyboard
- Serial, Parallel, and Game Ports
- 12" Amber Monochrome Monitor
- Hercules Compatible Graphics
- 1.2 or 1.44 MB Floppy Drive 5 1/4"
- 80 MB 28ms Hard Drive
- Hard & Floppy Drive Controller
- Clock, Calendar w/Battery Backup

\$1269

PACER 386 20 MHz

VERTICAL SYSTEM w/40 MB Hard Drive

- 20 MHz 80386 Motherboard
- 1 MB RAM 0 Wait State
- 1.2 or 1.44 MB 5.25" Floppy Drive
- Serial/Parallel Ports
- Game/Clock/Calendar
- 101 Enhanced Keyboard
- 40 MB 28ms Hard Disk
- Monochrome Graphic Card
- Hard & Floppy Controller
- Desktop or Vertical Case
- 200W Power Supply
- 12" Amber Monitor w/Swivel Base
- System Expandable to 8 MB
- 8 Expansion Slots
- 80387-20 Coprocessor Socket

\$1399

PACER 386 25 MHz

VERTICAL SYSTEM w/40 MB Hard Drive

- 25 MHz 80386 Motherboard
- 1 MB RAM 0 Wait State
- 1.2 or 1.44 MB 5.25" Floppy Drive
- Serial/Parallel Ports
- Game/Clock/Calendar
- 101 Enhanced Keyboard
- 40 MB 28ms Hard Disk
- Monochrome Graphic Card
- Hard & Floppy Controller
- Desktop or Vertical Case
- 200W Power Supply
- 12" Amber Monitor w/Swivel Base
- System Expandable to 16 MB
- 8 Expansion Slots
- 80387-25 Coprocessor Socket

\$1519

PACER 386 33 MHz

w/64K Cache VERTICAL SYSTEM w/40 MB Hard Drive

- 33 MHz 80386 Motherboard
- 1 MB RAM 0 Wait State
- 1.2 or 1.44 MB 5.25" Floppy Drive
- Serial/Parallel Ports
- Game/Clock/Calendar
- 101 Enhanced Keyboard
- 40 MB 28ms Hard Disk
- Monochrome Graphic Card
- Hard & Floppy Controller
- Desktop or Vertical Case
- 200W Power Supply
- 12" Amber Monitor w/Swivel Base
- System Expandable to 16 MB
- 8 Expansion Slots
- 80387-33 Coprocessor Socket

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OPTIONS (With System Only)

Standard VGA Card + Standard	1.44 MB Floppy Drive.....	59
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Super VGA Card + Super	Each additional	
VGA Monitor	1 MB RAM	59

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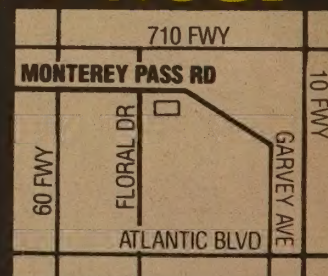


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Monterey Park, CA 91754

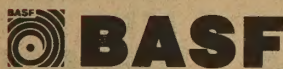
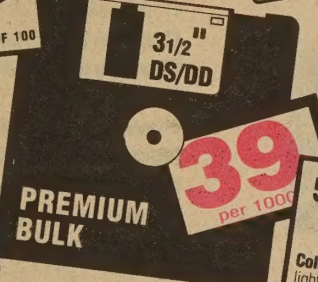
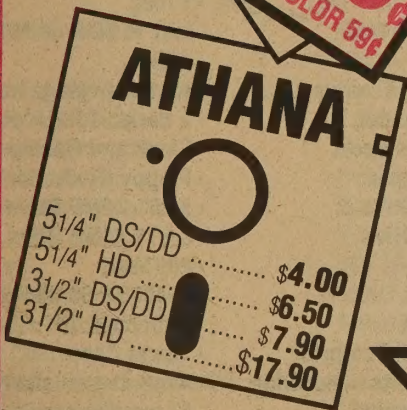
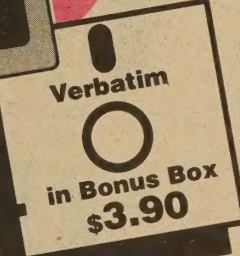
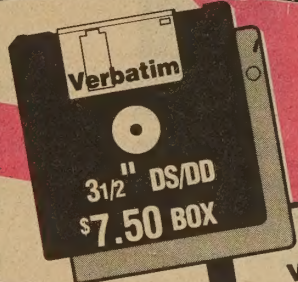
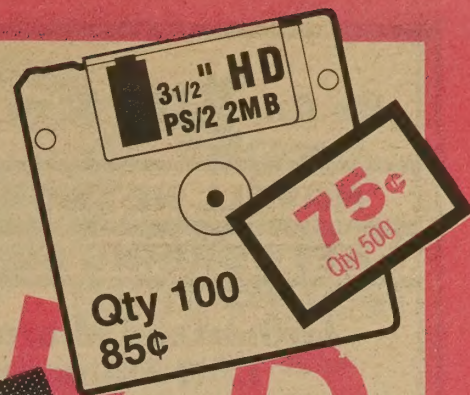
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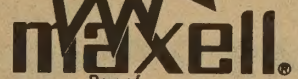


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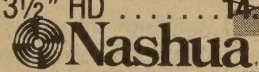
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5 1/4" HD	7.95 BOX CALL
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3 1/2" HD	14.95 BOX CALL



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3 1/2" DS/DD	9.95 BOX CALL
3 1/2" HD	14.95 BOX CALL



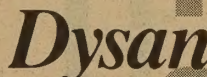
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Head Cleaning Kit for disk drives (3 1/2" or 5 1/4")	\$3.95
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DC-600A	\$19.95
DC-6150	\$23.95
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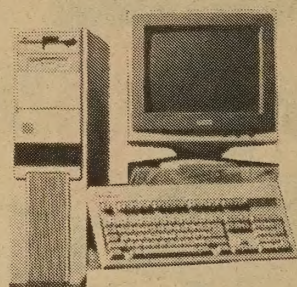
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Expansion Slots

Pricing

286-12MHz

- 286-12MHz
- 0 wait state-15.9 MHz
- Unix-DOS-OS/2
Novell
- 1 meg
exp. to 4MB on M/B
- AMI
American MegaTrends, Inc.
- Serial, 1 Parallel,
Clock and Gameport
- Floppy Controller
- 5.25" 1.2MB Drive or
3.5" 1.44MB Drive
- 200 Watt
- 80287 Socket
- Enhanced 101
- Desktop Small Footprint
- 4 months on-site nationwide
12 months carry-in
- 8 slots - 5 16 bit
& 3 8 bit

~~\$495~~ \$449

286-16MHz

- 286-16MHz
- 0 wait state-21.7 MHz
- Unix-DOS-OS/2
Novell
- 1 meg
exp. to 4MB on M/B
- AMI
American MegaTrends, Inc.
- 2 Serial, 1 Parallel,
Clock and Gameport
- Floppy Controller
- 5.25" 1.2MB Drive or
3.5" 1.44MB Drive
- 200 Watt
- 80287 Socket
- Enhanced 101
- Desktop Small Footprint
- 4 months on-site nationwide
12 months carry-in
- 8 slots - 5 16 bit
& 3 8 bit

~~\$549~~ \$495

386SX-16MHz

- 386SX-16MHz
- 0 wait state-19.4 MHz
- Unix-DOS-OS/2
Novell
- 1 meg
exp. to 8MB on M/B
- AMI
American MegaTrends, Inc.
- 2 Serial, 1 Parallel,
Clock and Gameport
- Floppy Controller
- 5.25" 1.2MB Drive or
3.5" 1.44MB Drive
- 200 Watt
- 80387SX Socket
- Enhanced 101
- Tower Case
- 4 months on-site nationwide
12 months carry-in
- 8 slots - 5 16 bit
& 3 8 bit

~~\$895~~ \$795



MONITORS & CARDS

Goldstar/Loop

- 14" Hi-res amber monitor w/card\$149
- 12" Hi-res amber monitor w/card 99
- 14" VGA color, 640 x 480 w/VGA color
card-256K 399
- 14" VGA color, 1024 x 768 w/1024 x 768
VGA card 459

\$ _____

MICE

- Logitech Mouse w/Windows 3.0\$159
- Logitech Dexxa Mouse/Pad 39

FLOPPY DRIVES

- 3.5" 1.44 Drive w/Brackets\$79
- 5.25" 1.2 Drive w/Brackets 79

\$ _____

HARD DRIVES

- 40MB Western Digital/IDE Cont\$349
- 65MB PTI w/RLL Controller 395
- 105MB Connors w/IDE Controller 595
- 209MB Connors w/IDE Controller 995
- 668MB Maxtor w/ESDI Controller CALL

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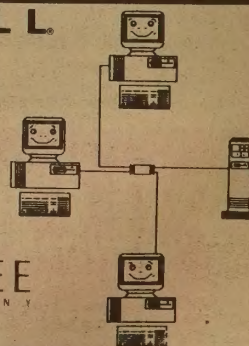
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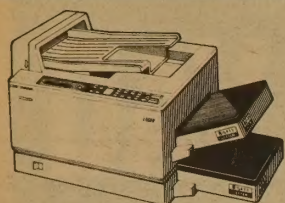
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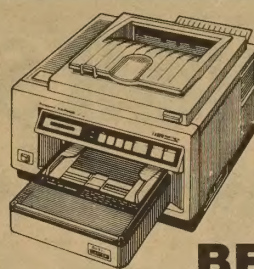
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E X C L U S I V E

386SX-20MHz

- 386SX-20 MHz
- 0 wait state-19.4 MHz
- Unix-DOS-OS/2 Novell
- 2 meg exp. to 8MB on M/B
- AMI American MegaTrends, Inc.
- 2 Serial, 1 Parallel, Clock and Gameport
- Floppy Controller
- 5.25" 1.2MB Drive or 3.5" 1.44MB Drive
- 200 Watt
- 80387SX Socket
- Enhanced 101
- Tower Case
- 4 months on-site nationwide 12 months carry-in
- 8 slots - 5 16 bit & 3 8 bit

NEW

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386-25MHz

- 386-25MHz
- 0 wait state-28.9 MHz
- Unix-DOS-OS/2 Novell
- 2 meg exp. to 8MB on M/B
- AMI American MegaTrends, Inc.
- 2 Serial, 1 Parallel, Clock and Gameport
- Floppy Controller
- 5.25" 1.2MB Drive or 3.5" 1.44MB Drive
- 200 Watt
- 80387 Socket
- Enhanced 101
- Tower Case
- 4 months on-site nationwide 12 months carry-in
- 8 slots - 1 32 bit, 2 8 bit & 5 16 bit

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386-33MHz

- 386-33MHz
- 64K/0 wait-53.4 MHz
- Unix-DOS-OS/2 Novell
- 2 meg exp. to 16MB on M/B
- AMI American MegaTrends, Inc.
- 2 Serial, 1 Parallel, Clock and Gameport
- Floppy Controller
- 5.25" 1.2MB Drive or 3.5" 1.44MB Drive
- 230 Watt
- 80387 Socket/Weitek
- Enhanced 101
- Super Tower Case
- 4 months on-site nationwide 12 months carry-in
- 8 slots - 1 32 bit, 2 8 bit & 5 16 bit

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486-25MHz

- 486-25MHz
- 128K/0 wait-114.1 MHz
- Unix-DOS-OS/2 Novell
- 4 meg exp. to 16MB on M/B
- Phoenix
- 2 Serial, 1 Parallel, Clock and Gameport
- Floppy Controller
- 5.25" 1.2MB Drive or 3.5" 1.44MB Drive
- 230 Watt
- 80487 Socket/Weitek
- Enhanced 101
- Super Tower Case
- 4 months on-site nationwide 12 months carry-in
- 6 16 bit & 2 8 bit slots 16 bit slots operating at 8.3MHz

NEW

\$2995

486-33MHz

- 486-33MHz
- 128K/0 wait
- Unix-DOS-OS/2 Novell
- 4 meg exp. to 16MB on M/B
- Phoenix
- 2 Serial, 1 Parallel, Clock and Gameport
- Floppy Controller
- 5.25" 1.2MB Drive or 3.5" 1.44MB Drive
- 230 Watt
- 80487 Socket/Weitek
- Enhanced 101
- Super Tower Case
- 4 months on-site nationwide 12 months carry-in
- 6 16 bit & 2 8 bit slots 16 bit slots operating at 8.3MHz

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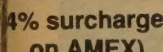
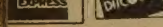
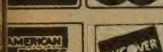
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Our annual guide to computer dealers in your area, listing specialties, products, services and in-house experts. It's designed as a year-round reference to help you find exactly what you need in a location convenient for you.

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The MicroTimes 1990 Writers' Soapbox Poll

In which our writers, who rarely hesitate to express an opinion or disagree with each other, discuss the best products of 1990.

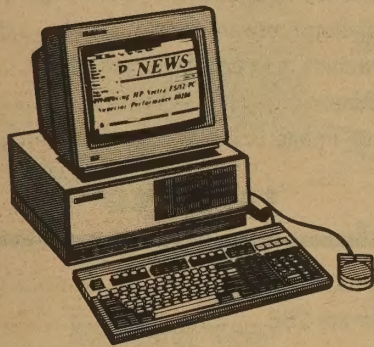
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 - Serial/Parallel Port
 - Hard Disk Controller

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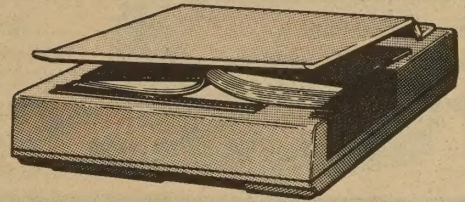
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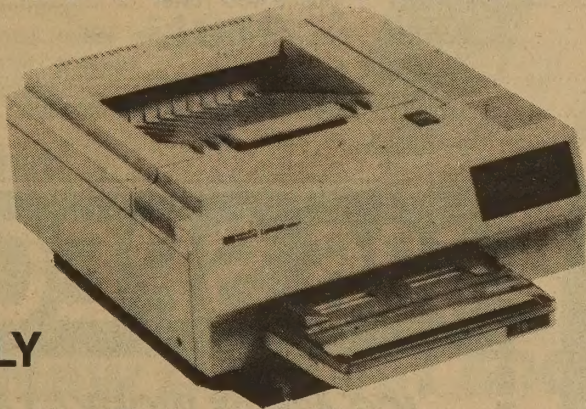
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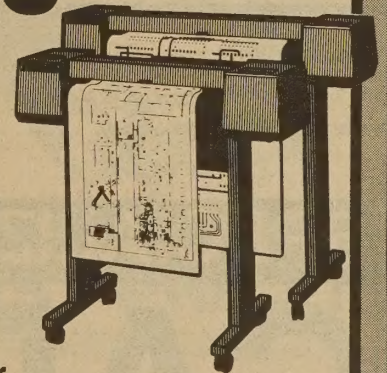
- 8 pages per minute
- 300 dpi
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PLOTTERS

DraftPro DXL Plotter

- A-D Size Media
- 8 Pen Selection
- Single Sheet Feeder

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7576A HP DraftPro EXL Plotter

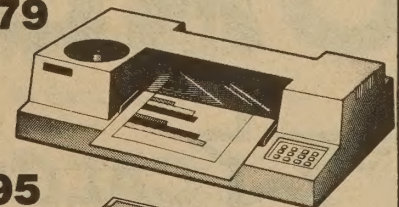
- A-E Size Media
- 8 Pen Selection
- Single Sheet Feeder

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7440A HP ColorPro Plotter

- A Size Media
- RS2/32 Interface

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HP 7475A Plotter

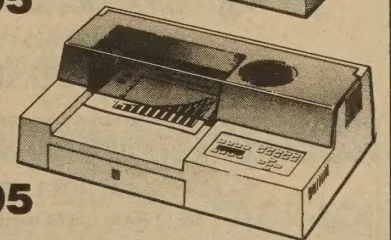
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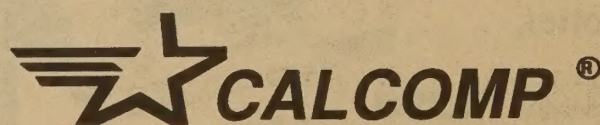
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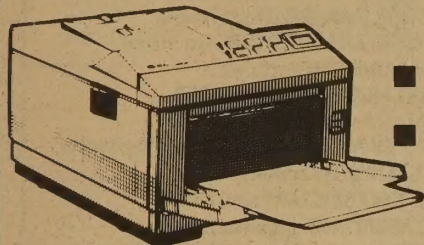
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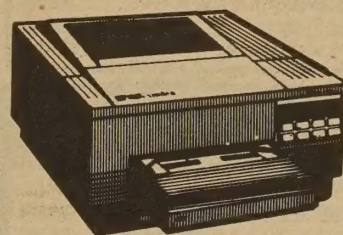
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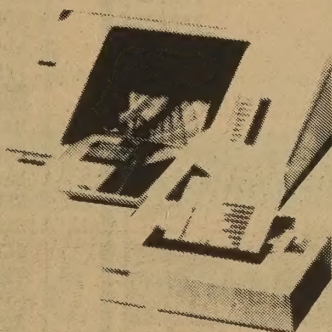
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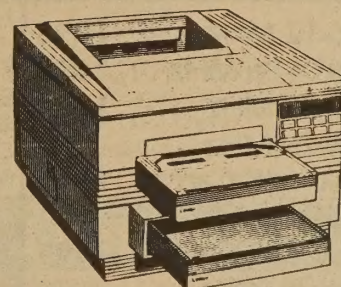
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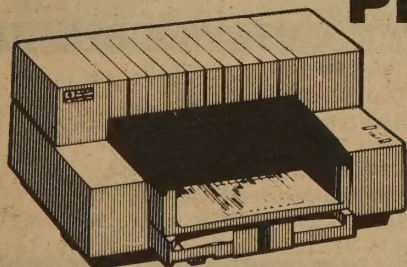
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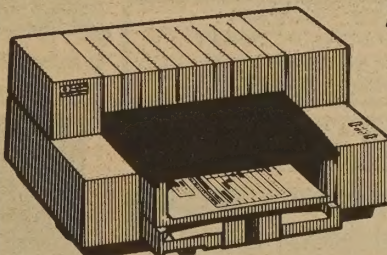


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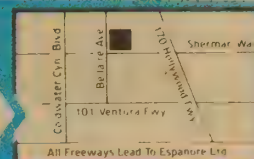
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The MicroTimes [1991] Southern California

Computer Reseller Guide

If you've decided that your office really needs a LAN, or your all-in-one accounting package isn't meeting your growing business's needs, or you find yourself needing a computer-based music system, it's pretty frustrating to spend time calling around to generic computer stores who somehow seem to specialize in everything you don't need.

Well, no matter what your requirements, this annual Reseller Guide should prove a helpful tool in the year to come. Retailers, systems integrators, and other service providers told us where to find them and explained their areas of expertise. We, in turn, have listed the information by area, so you'll have an easy time finding the specialist you need without having to drive across town.

So whether it's Windows in Wilmington or Paradox in Pasadena, you'll find it fast with this guide.

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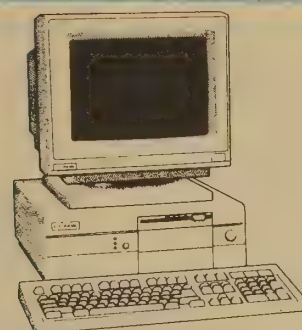
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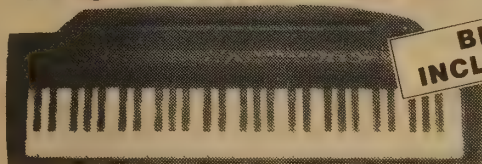
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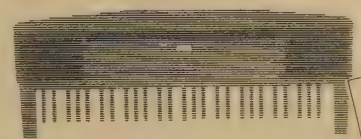
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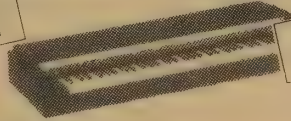
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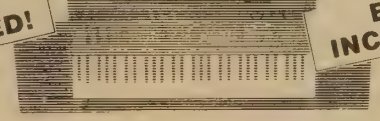
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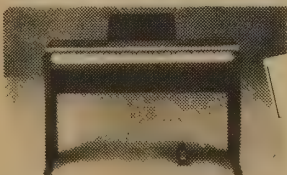
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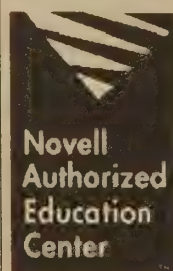
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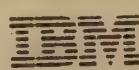
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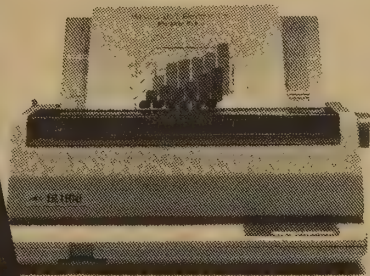
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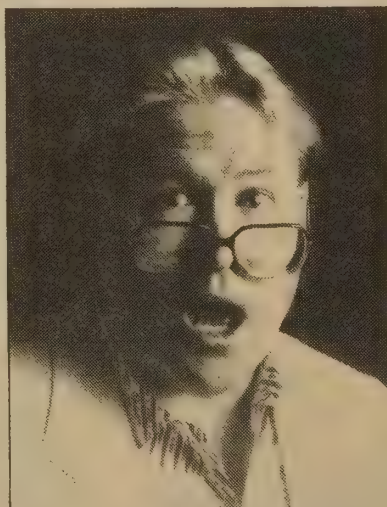
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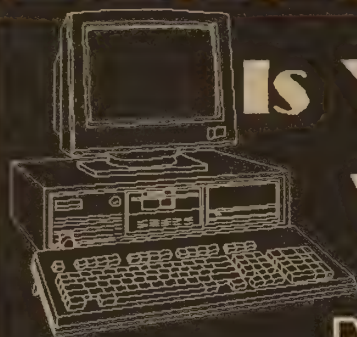


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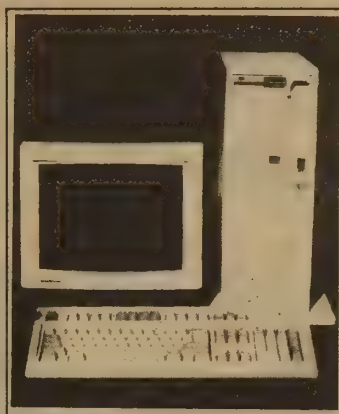
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- 1MB RAM
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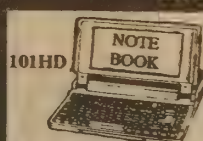
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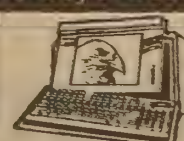
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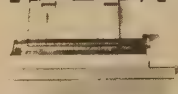
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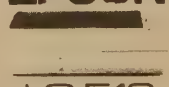


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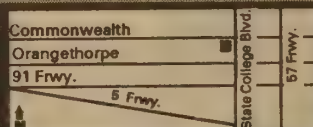
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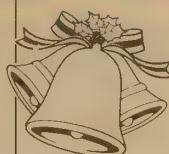
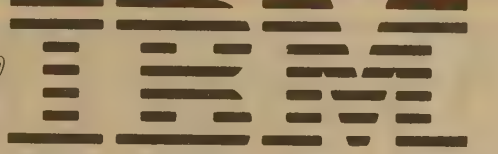
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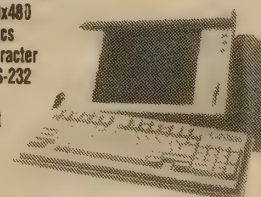
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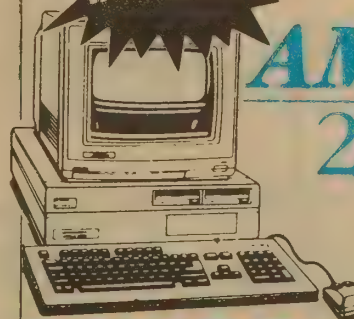


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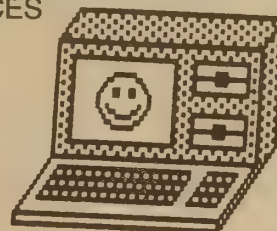


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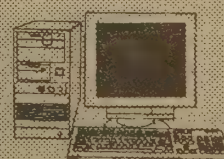
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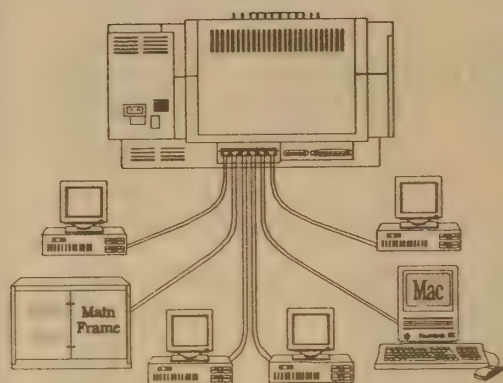
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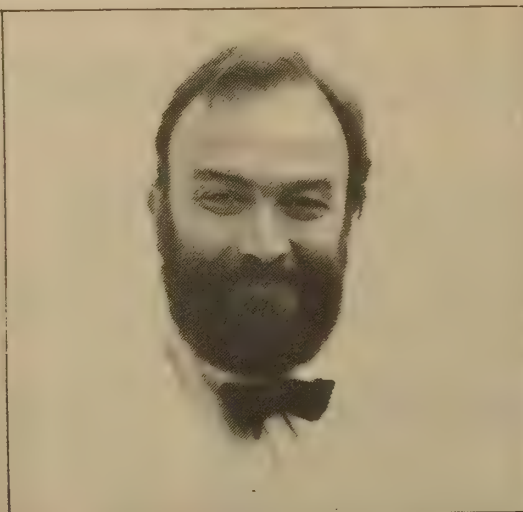
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Continued on page 48



UNIX?

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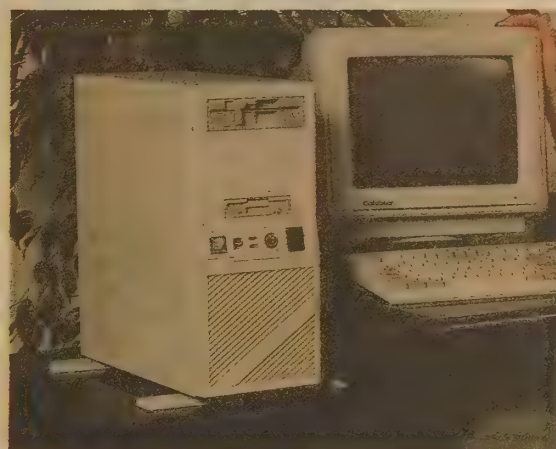
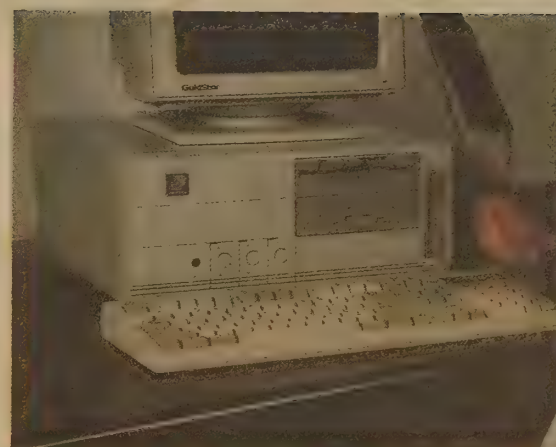
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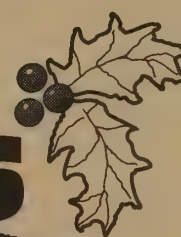
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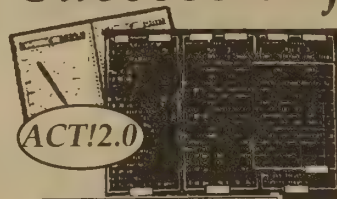
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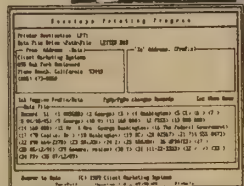
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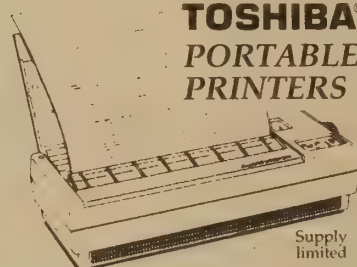
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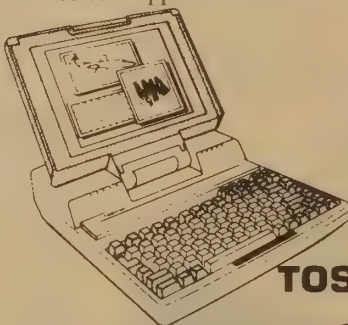
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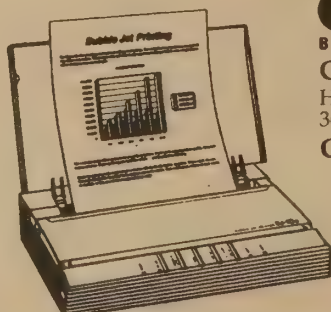


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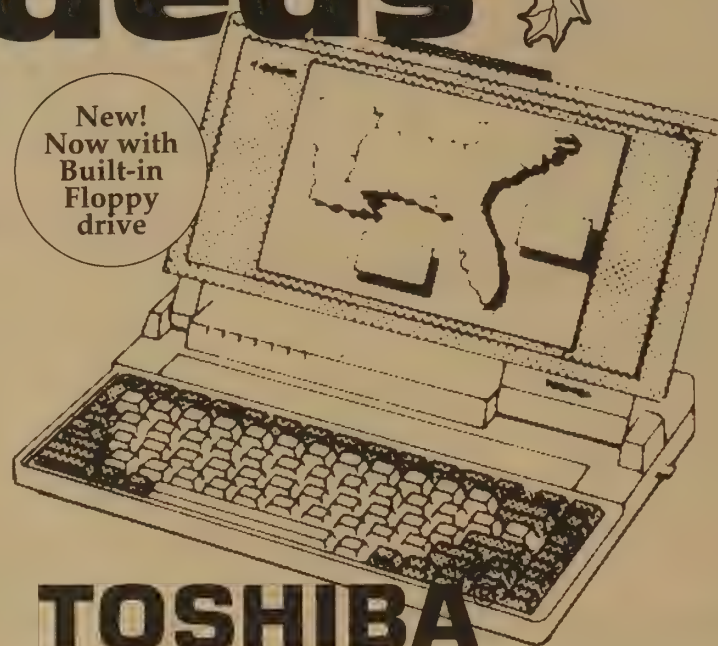
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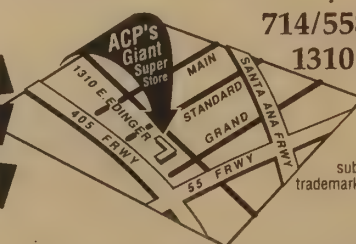
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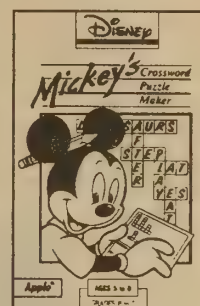
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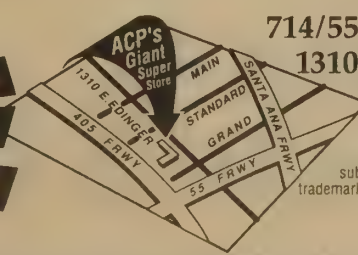
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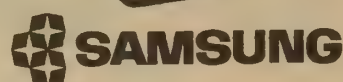




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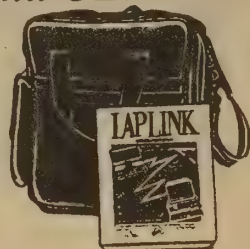


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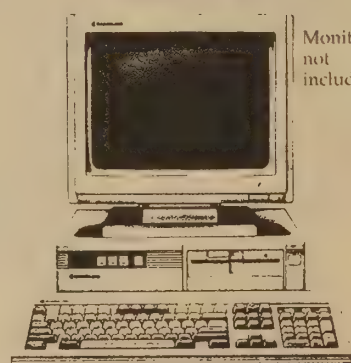
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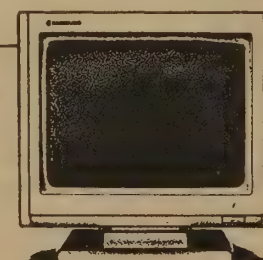
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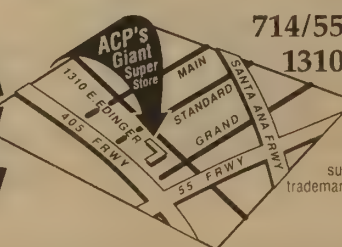
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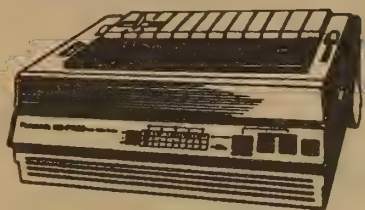
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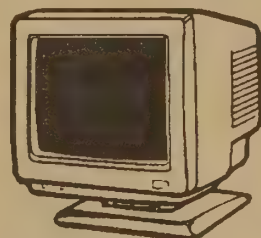
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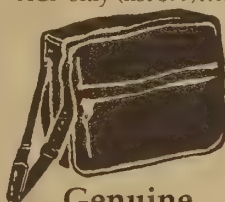


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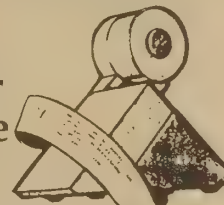


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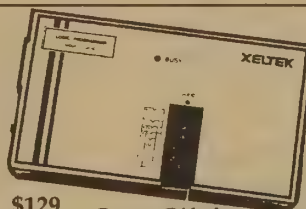
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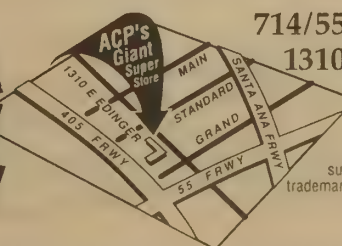
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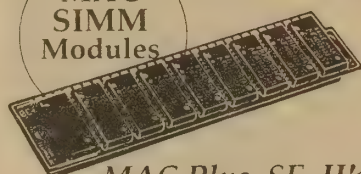


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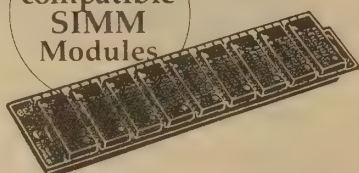
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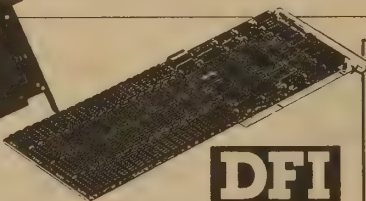
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with 0K onboard.....**129.**

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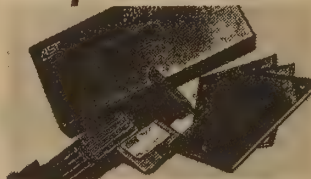
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Up to 2 Mb extended or
expanded memory.

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Megalith 4 Mb AT
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uses 256K x 4's

with 0K EEMS...**119.**

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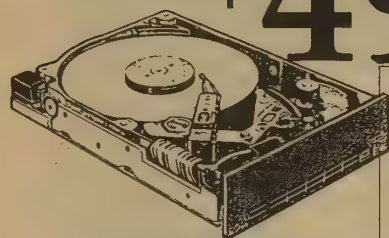


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MFM, XT/AT, 5.25"HH

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40 Mb

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MFM, XT/AT, 5.25"HH

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ST157A Drive \$279.
AT, 3.5"HH, Bare Drive
IDE Adapter.....\$29
IDE Adapter w/Floppy.....\$49

111Mb IDE

ST1126A Drive \$649.
IDE, AT, 3.5"HH

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720K	63.	66.
1.2Mb	69.	74.
1.44Mb	69.	79.

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MFM 1:1 Hard	
WD 1006V-MM2	\$98.
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WD 1006V-SR 1	\$98.
RLL 1:1 Hard	
WD 1006V-SR 2	\$109.
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WD 1007V-SE 2	\$199.
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MFM, XT/AT

\$24.

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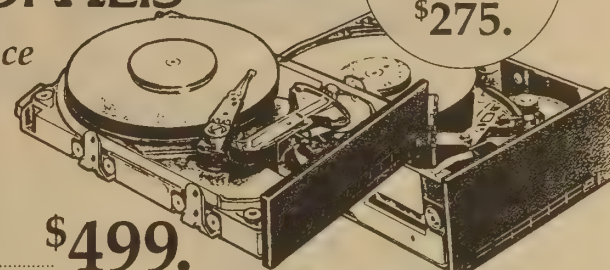
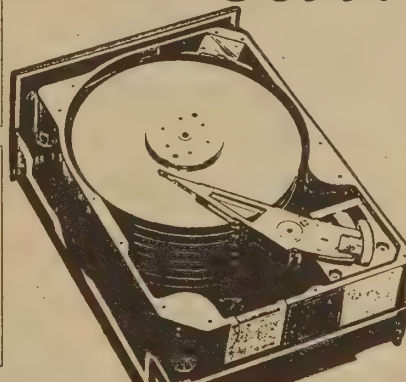
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ESDI, 14ms, 5.25"HH

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1568-15 Drive \$1990.
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MK134 FA
RLL, 22ms, 3.5" HH

72Mb Drive

MK 72 PC \$599.
MFM, 25ms 5.25"FH

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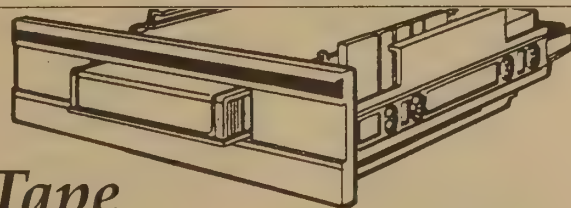
MK 324F IDE \$599.
IOE, 22ms, 5.25" FH

KALOK

30Mb Drive \$239.
KL 330
MFM, AT, 40ms, 3.5"

40 Mb

KL343 IDE \$277.
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for AT User, uses DC2000
Extended length tape. Includes
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Two year warranty..... \$299.

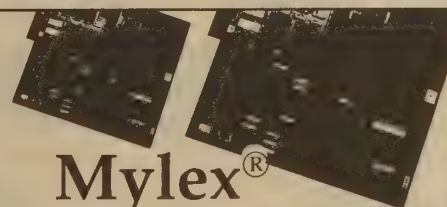
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- 80486 25 or 33 MHz
- 128 or 256 cache
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- 4167 Socket
- Baby or full-size
- One year warranty

Call ACP!

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Motherboard 0K... \$399.

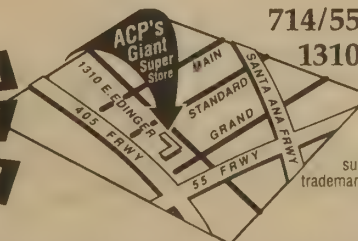


Mylex® Motherboards

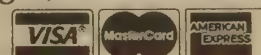
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- MAE 486-25 EISA call.
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Without compromise the "Golf SX" is the "Perfect Solution" for the executive on the go! The "Golf SX's" integrated portability kit packs your entire desktop in one convenient 17 lb. carrying case. No other laptop or portable has the capability of letting you take everything home or on a trip and continue right on computing just as if you never left the office. No more 'wimpy' portables that require special programming!!!

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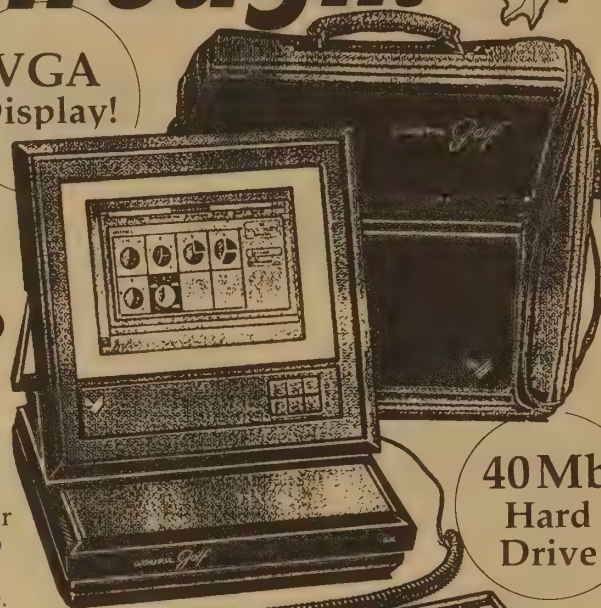
The GOLF SX Includes:

- 16 MHz 80386SX CPU
- 40 Mb Hard Drive
- 1 Mb RAM expands to 9 Mb
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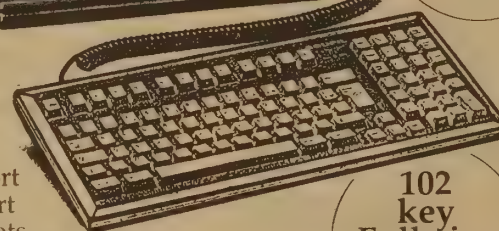
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VGA
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40 Mb
Hard
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102
key
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key
board

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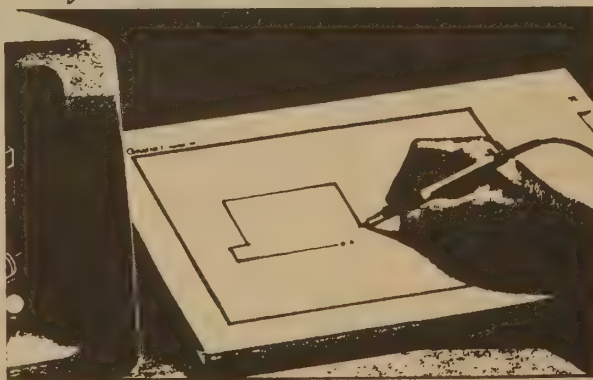
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If you are considering a purchase of a laptop or portable ask yourself: ...does it provide me with everything I need without any hassles of connectivity, lugging external drives, no booting problems, no eyestrain due to dim or blurred displays?

Without question the "GOLF SX" offers a completely uncompromised solution that you can confidently experience when you own your very own. The "GOLF SX" is a total system solution. ACP has available only a couple hundred units at this price. We expect a sellout so don't miss out! Stop by for a demo or call and we will Fax or send additional specifications.

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High Resolution (0.1mm/250 lines/inch)
Deluxe desktop digitizer for easy, high speed (60 points per second) computer graphics input. The Model 01 is size "A" with 8" X 12" digitizing area on a compact tablet suitable for lap or desktop use.

Includes:
Grip stylus pen & 4-button 'Puck' cursor.

Features:

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Retail price for Model 01 with stylus is \$355.00. Optional 4-button cursor is \$95.00. Your price for the model 01, a \$490.00 value with cursor and stylus, only from ACP.....

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Same as Model 01 except:
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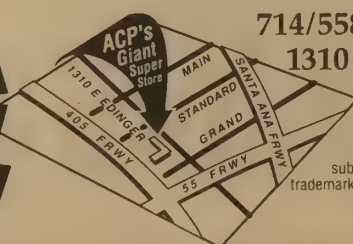
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169. While Supply Lasts! 199.

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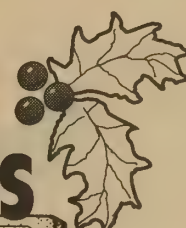
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HYUNDAI



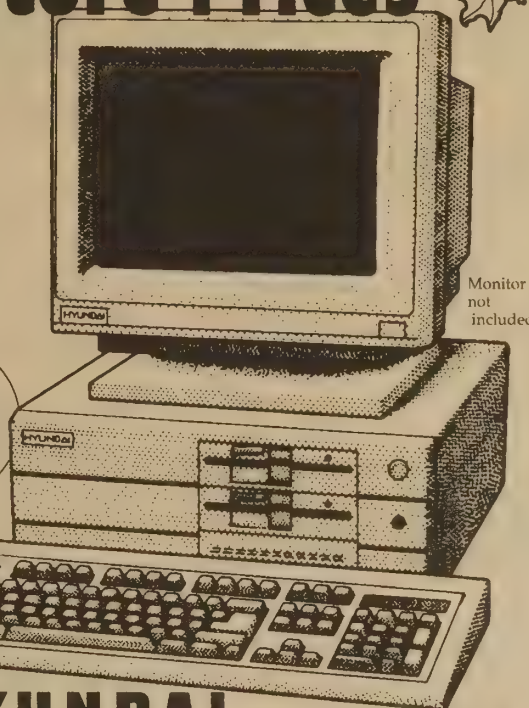
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The Hyundai Advantage!

- 18 Months Warranty
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- \$28 Billion Company
- Established 1945
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with
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diagnostics
and
MS-DOS

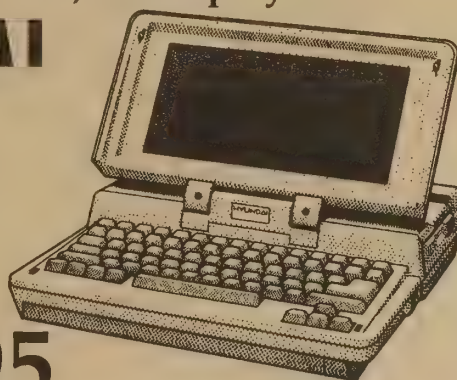


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286 AT portable laptop...

- 2 Mb RAM, expandable
- 1.44 Mb Floppy drive
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- Only 12.5 lbs.
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True 32 bit performance at an affordable price. Ideal for business professionals and power computing workstations...

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- Complete with software

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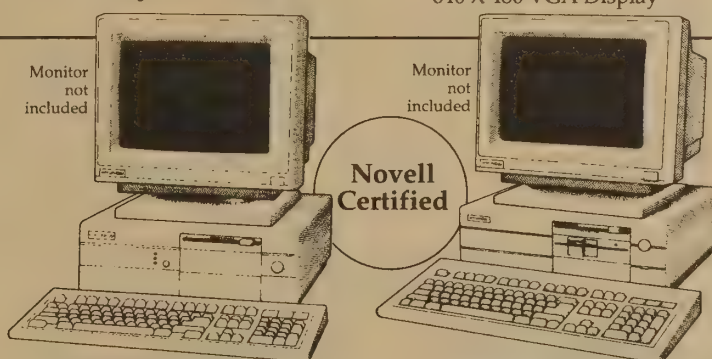
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New! Super LT5 386SX Laptop

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"Come in to ACP and demo
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The affordable 386 "Powertool"...
fast 16 MHz operation with
versatile design including IDE
hard disk interface on-board.

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- 40 Mb Hard Drive optional
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Bundles include ACP-qualified drives & monitors

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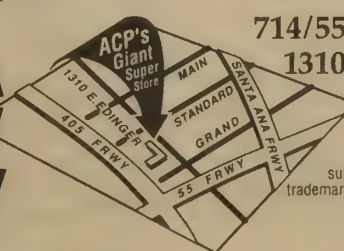
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Serial with Windows 3.0
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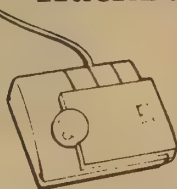
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ACP only serial version \$169

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C9 Bus Mouse
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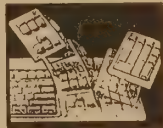
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Inc. PC Paint Plus and Scankit II

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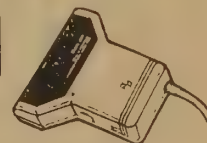
ScanMan w/Catchword OCR \$299

ScanMan™ Mac 32

Add high quality images, logos, clipart and line art to your documents. 4" scan with true gray scale

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CHS4000 Plus 4" handheld 400 dpi with 256 colors. Includes PC Paintbrush 4.0 Plus.

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NEC

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Hottest Selling Postscript Laser on the Market! Unbelievable Price Performance! 300x300dpi 6 ppm, Letter/Legal, 2Mb, Plus 35 scalable Adobe Postscript Fonts. Use it on your Apple, Macintosh or IBM. This baby is loaded and check out the price!

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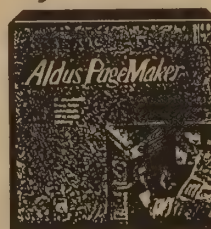
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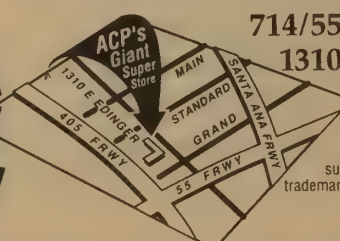
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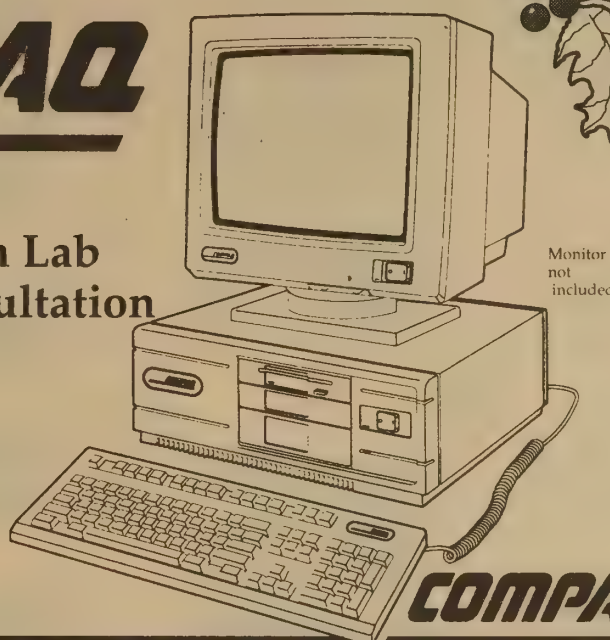
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- ✓ Small 2-10 PC's Networks Free consultation
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- ✓ Affordable Workstations
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- ✓ 36 Months Leasing Option



Monitor
not
included

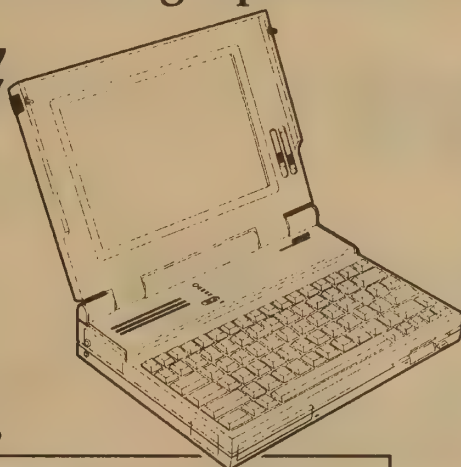
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LTE 386s/20

386SX portable laptop...

- 2 Mb RAM, expandable
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- Only 7.5 lbs. 8.5"x11"
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with 30 Mb
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ACP
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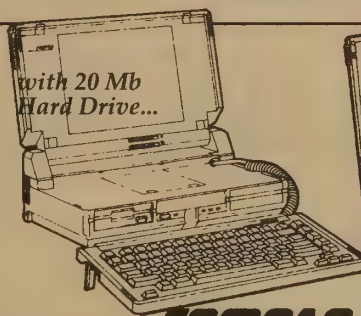
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"Are you in Field Sales or Insurance? ... we have a solution for you!"

COMPAQ LTE/286 Laptop

\$2388.

- 12 MHz 80C286 • 640K RAM
- 20Mb Drive (40Mb option)
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with 20 Mb
Hard Drive...

COMPAQ



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20 MHz

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with 20 Mb
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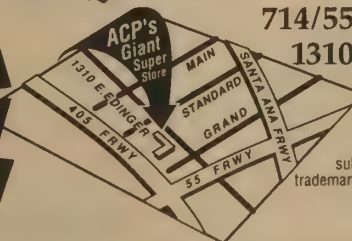
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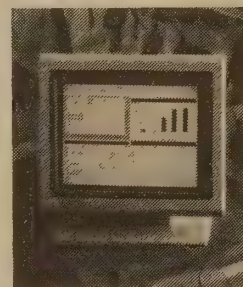
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Continued from page 34

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In-House Expert:
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Novell Networks

John Gallagher

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In-House Expert:
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In-House Expert: Dave Jolsen

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Leading Brands Sold: Acer, Network Interface, Novell

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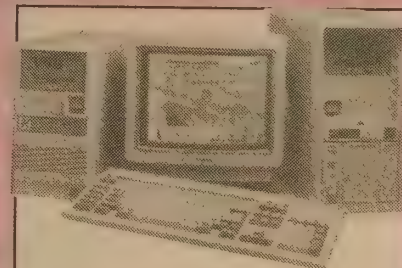
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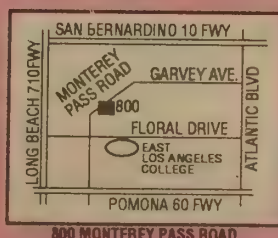
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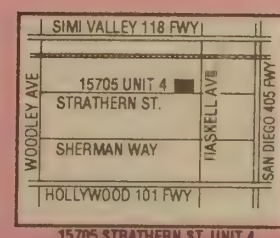
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- 4 MB Expandable
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- AT Deluxe Case
- Hercules Comp. Graphic
- Clock/Calendar (Battery Bkup)
- Parallel Printer Port
- IDE Hard/Floppy Controller
- 1.2 MB or 1.44 MB Floppy (Japan)
- 101 Enhd Keyboard (Japan)
- TTL (Tilt & Swivel) Monitor
- Operation Manual

***For 16 MHz System Add . \$69
(same config. as above)**

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64K Cache on Board Exp. to 256K

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- 16 MB Expandable
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- Hercules Comp. Graphic
- Clock/Calendar (Battery Bkup)
- 2 Serial/2 Parallel/1 Game
- IDE FD/HD Controller
- 1.2 MB or 1.44 MB Floppy (Japan)
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- TTL (Tilt & Swivel) Monitor
- Operation Manual

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- Operation Manual

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386-25 MHz 0 Wait

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- 1.2 MB or 1.44 MB Floppy
- CMOS Clock Calendar
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- 14" Flat Screen w. Tilt & Swivel Monitor
- 2 Serial/2 Parallel/1 Game
- Operation Manual

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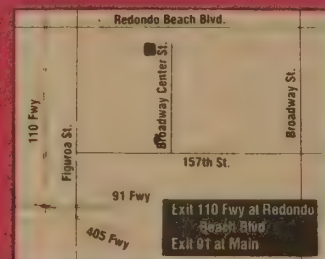
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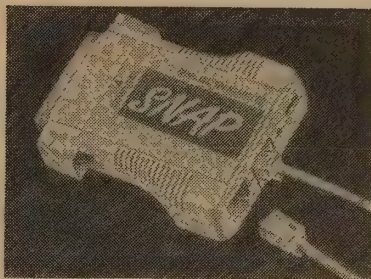
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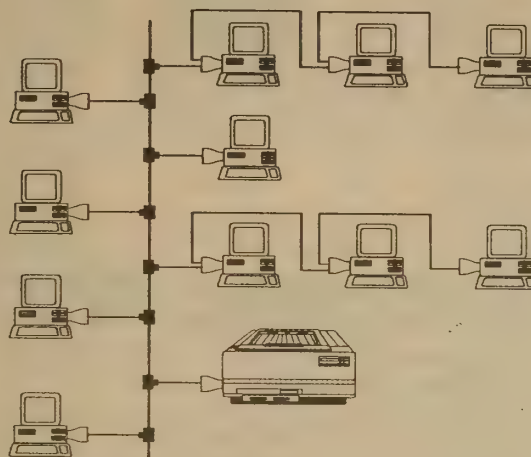
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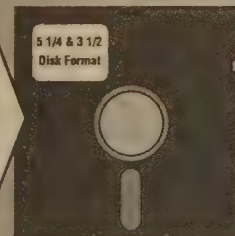
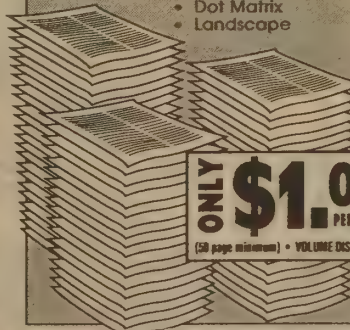
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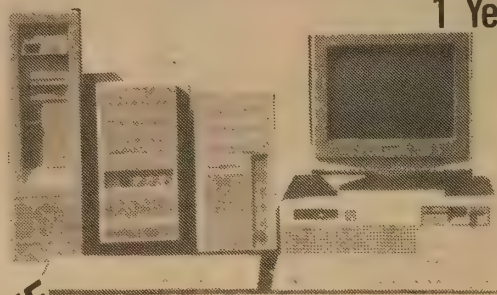
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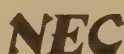
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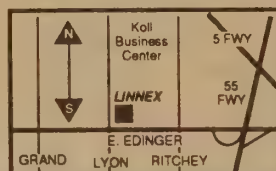
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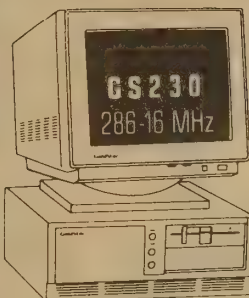
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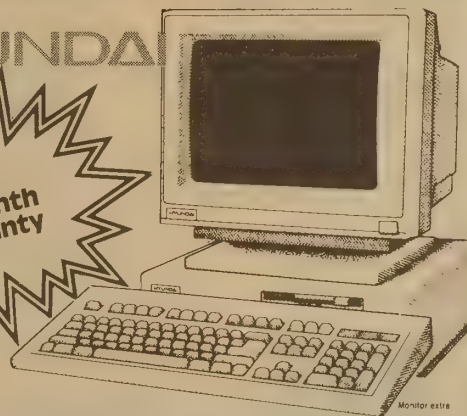
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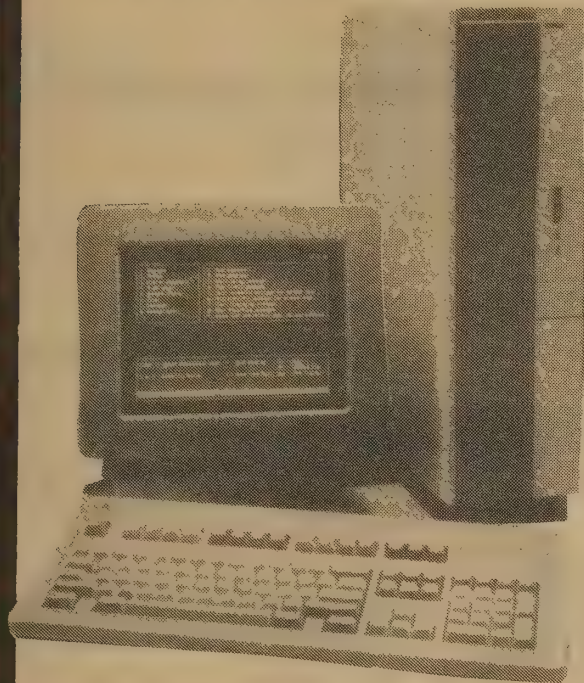
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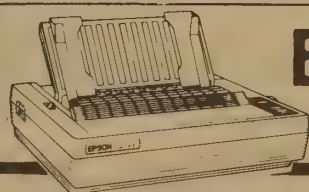
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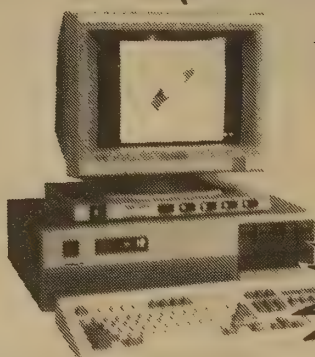
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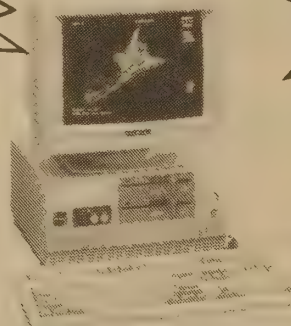
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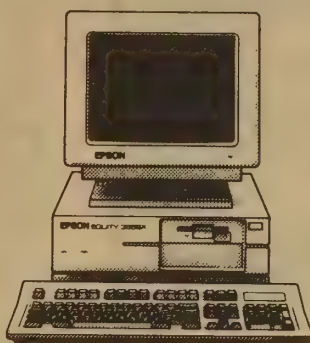
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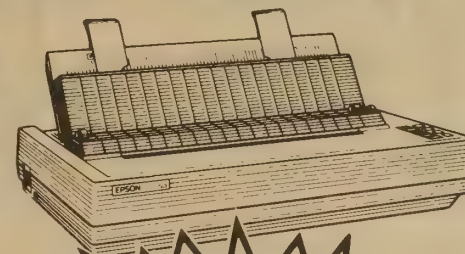
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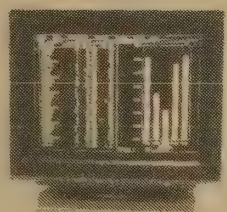
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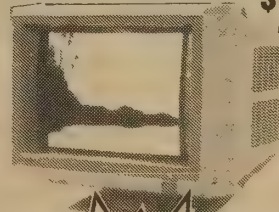


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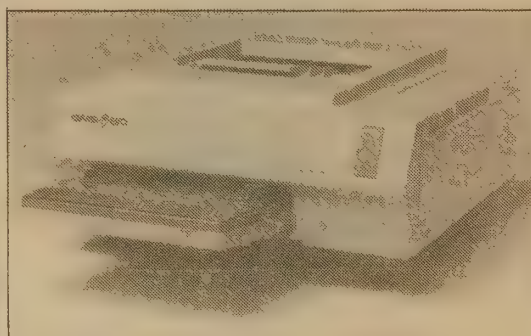
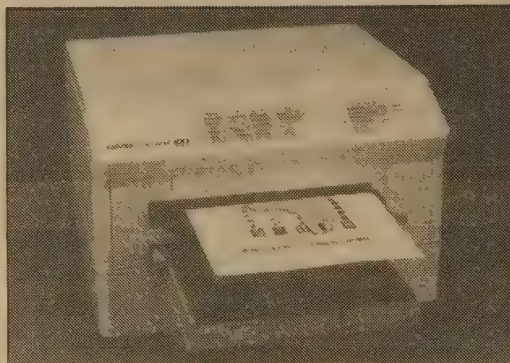
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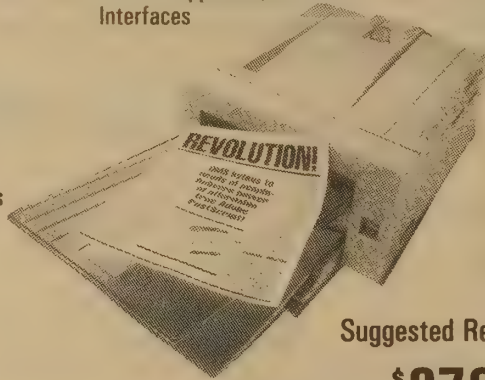


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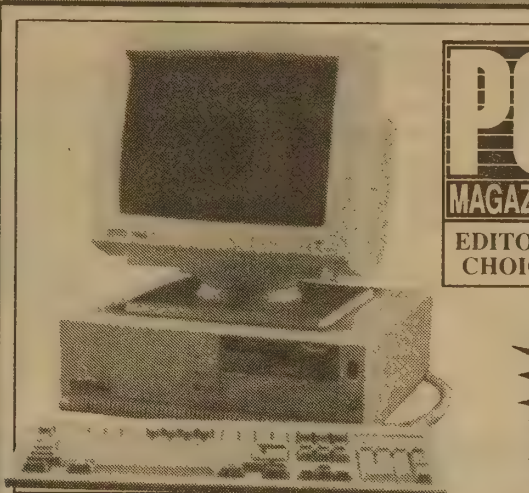
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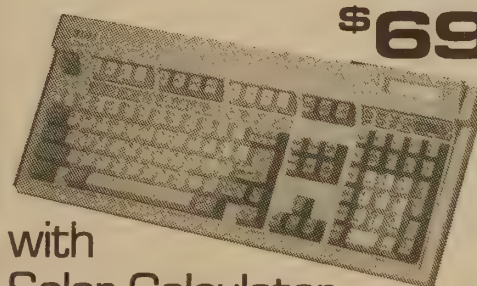
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In-House Expert: Casey
Operating Systems Supported: MS-DOS, UNIX/XENIX
Leading Brands Sold: Excel 286, Excel 386SX, CTX VGA Monitors
Special Value Added: On-site service

GALLANT INTELLIGENT COMPUTERS

Store Manager: David Chen
 2705 N. Durfee Ave.
 El Monte, CA 91732
 (818)575-0866
Areas of Specialty: Hardware
In-House Expert: David Peng
 Software Rex Yu
Operating Systems Supported: MS-DOS, Novell
Leading Brands Sold: GIC 386, GIC 286, GIC Portable
Special Value Added: Service, Support, Warranties, Return Policy

GOLDEN EVERSTAR INC.

Store Manager: Jennifer Lee
 20957 E. Currier
 Industry, CA 91789
 (714)594-4168
Areas of Specialty: 286, 386, 486
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Leading Brands Sold: Golden Everstar

HORNET MICRO SYSTEMS

Store Manager: Dan Tran
 14094 E. Firestone Blvd.
 Santa Fe Springs, CA 90670
 (213)404-0707
Areas of Specialty: Accounting
In-House Expert: Christina Lin
Operating Systems Supported: MS-DOS
Leading Brands Sold: NEC, Everex
Special Value Added: Service, return policy, warranty, support.

INFO SOFT

Store Manager: Jim Foran
 100 W. Foothill Blvd., Ste.205
 San Dimas, CA 91773
 (714)592-5561
Areas of Specialty: Business Accounting, Job Cost, Manufacturing, Time Billing, Point of Sale, PCs, Printers, Lasers, etc., Networking, Consulting
In-House Expert: Jim Foran
Operating Systems Supported: MS-DOS, UNIX/XENIX
Leading Brands Sold: Epson, Data Pro Accounting, WordPerfect
Special Value Added: On-site training, support, warranties and consulting

INTERNET DATA CORP.

Store Manager: Ken Chu
 215 W. Pomona Blvd., Ste. 205
 Monterey Park, CA 91754
 (213)728-0123
Areas of Specialty: Novell
Operating Systems Supported: MS-DOS, OS/2, AmigaDOS, Mac OS, UNIX/XENIX

J & B SYSTEMS

Store Manager: George Jew
 1004 Mariposa Lane
 Montebello, CA 90640
 (213)820-7047
Areas of Specialty: Construction Accounting
In-House Expert: Phil Blum
 Ally Multiware George Jew
Operating Systems Supported: MS-DOS, UNIX/XENIX
Leading Brands Sold: Novell, CTX Monitors, Alloy
Special Value Added: On-site service and training.

KECS

Store Manager: Thomas

4213 Rosemead Bl. #H-2
 Rosemead, CA 91770
 (818)286-6620
Operating Systems Supported: MS-DOS, OS/2
Leading Brands Sold: Panasonic
Special Value Added: One year warranty.

KIS COMPUTER CENTER

Store Manager: Richard Chan
 11805 East Telegraph Rd.
 Santa Fe Springs, CA 90670
 (213)942-0338
 Fax (213)942-7720
Other Locations: City Of Industry
Areas of Specialty: Desktop Publishing, Accounting, Fonts
Operating Systems Supported: MS-DOS, Mac OS, UNIX/XENIX, New Wave
Leading Brands Sold: Hewlett-Packard
Special Value Added: Service Training Warranties

LEGATECH COMPUTER/LODESTAR DISTRIBUTING

Store Manager: Sylvia
 789 S. San Gabriel Blvd. #D
 San Gabriel, CA 91776
 (818)309-2941
Other Locations: 14412 E. Valley Blvd., Industry, CA 91746
Areas of Specialty: Networking
Operating Systems Supported: MS-DOS
Leading Brands Sold: Panasonic, Orchid, Western Digital
Special Value Added: Service.

LINCO COMPUTER CORP.

12155 Mora Dr., Ste. #9
 Santa Fe Springs, CA 90670
 (213)903-1299
 Fax (213)903-1266
Areas of Specialty: Computer Cases, Power Supply, Accessories
Operating Systems Supported: MS-DOS
Leading Brands Sold: Linco
Special Value Added: Full factory warranty

MAX GROUP CORP.

Store Manager: Eric Hsu
 600 Monterey Pass Rd.
 Monterey Pass, CA 91754
 (818)300-8406
Operating Systems Supported: MS-DOS
Leading Brands Sold: TEAC, Citizen, Toshiba
Special Value Added: Technical support, manufacturer's warranty, delivery to surrounding area (free), offer one of the lowest prices on computer peripherals in California, free consultation on system set-ups.

MAXTRON

Store Manager: Stephen Ma
 1825A Durfee Ave.
 S. El Monte, CA 91733
 (818)350-5706
Areas of Specialty: Custom software, Accounting, Networking
Operating Systems Supported: MS-DOS, OS/2, Pick
Leading Brands Sold: Maxtron, Panasonic, Western Digital
Special Value Added: Support

MEGA COMPUTER

Store Manager: Jerry
 7729 E. Garvey Ave. Suite #1
 Rosemead, CA 91770
 (818)572-4498
Other Locations: 7940 E. Garvey Ave. #105, Rosemead
Areas of Specialty: IBM Compatible systems
In-House Expert: Jerry, Peter
 Networking Jerry, Peter
 Custom software Jerry, Jenny
Operating Systems Supported: MS-DOS, UNIX/XENIX, Pick
Leading Brands Sold: Mega, Panasonic, TEAC
Special Value Added: One year warranty on all systems we sell. Free technical support over phone and great service by engineers.

MICA COMPUTER CENTER

Store Manager: Nelson Gam
 10204 Norwalk Blvd.
 Santa Fe Springs, CA 90670
 (213)944-1850
Other Locations: W. LA
Areas of Specialty: Authorized Novell
In-House Expert: Erwin Benner
 Business Solutions Chuck Dixon
 ALR
Operating Systems Supported: MS-DOS
Leading Brands Sold: MICA Pro 386, MICA 286 Slim Line, MICA Preview 386SX
Special Value Added: One year TRW on-site service, one year parts and labor. All systems come standard with Phoenix PC users guide with diagnosis.

MICROSYS AUTOMATION, INC.

Store Manager: David Yuan
 11947 E. Florence Ave. #6
 Santa Fe Springs, CA 90670
 (213)944-8666
Areas of Specialty: Computer Wholesale
In-House Expert: David Yuan
Operating Systems Supported: MS-DOS, OS/2, Novell
Leading Brands Sold: M 386 Systems, M 286 System, Panasonic Printers
Special Value Added: Free telephone support, one year parts and labor or manufacturer warranty. Knowledgeable, technical support.

MICROSYSTEMS 2000

Store Manager: Rusty Ruscetta
 575 So. Orange Grove Blvd. Unit A
 Pasadena, CA 91105
 (818)955-7710
Other Locations: 1901 Canoga Ave., Canoga Park, CA 91316; 477 E. Angeleno Ave., Burbank, CA 91501
Areas of Specialty: Novell LAN
In-House Expert: Pierre Shirvan, Gold Cirt. Engineer
 Accounting Software Mark Estrella
 Telemagic Rusty Ruscetta
Operating Systems Supported: MS-DOS, OS/2, Mac OS, UNIX/XENIX
Leading Brands Sold: Hewlett-Packard, Panasonic, Novell (LAN and WAN)
Special Value Added: Customized leasing, W.P. training (training on a total of 21 software packages). On-site service, tech support, custom software development, one year parts and labor warranty, build IBM clones.

NEW TECHNOLOGIES

Store Manager: Michael Dulay
 11845 Telegraph Rd.
 Santa Fe Springs, CA 90670
 (213)948-2600
Areas of Specialty: Networking
In-House Expert: Michael Tsai
Operating Systems Supported: MS-DOS, OS/2, Novell Netware OS
Leading Brands Sold: MS-DOS, MS-Windows, Novell
Special Value Added: On-site training, service, network consulting, free phone support, 14 day money-back guarantee.

OCEAN INTERFACE CO.

Store Manager: James Pan
 515 Spanish Lane #C
 Walnut, CA 91789
 (714)595-1212
Areas of Specialty: 386-486, Novell Networks, Point of Sale bar code system
Operating Systems Supported: MS-DOS
Leading Brands Sold: Ocean 386SX, Ocean 486, Paradise, Genoa, Oak VGA
Special Value Added: On-site service and support; one year parts and labor warranty

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OCTO COMPUTER CO.

Store Manager: Frank Tseng
100 N. 6th Ave.
City of Industry, CA 91746
(818)330-6026
Areas of Specialty: Networking
Operating Systems Supported: MS-DOS, OS/2, CP/M, UNIX/XENIX
Special Value Added: Service, support, warranties

PACIFIC TRANS COMPUTER, INC.

Store Manager: Michael Tsair
14414 E. Valley Bl.
Industry, CA 91746
(818)330-3114
Areas of Specialty: System
In-House Expert: Nelson Lee
Operating Systems Supported: MS-DOS
Leading Brands Sold: UNI (K/B), NEC (HDD), Artek (M/B)
Special Value Added: Service, support

PANTEX COMPUTER (L.A.) INC.

Store Manager: Lili Chen
11546 E. Washington Blvd., Ste. A&B
Whittier, CA 90606
(213)699-3333
Other Locations: Houston, Texas; Norcross, Georgia
Areas of Specialty: CASE, 286 & 386 Motherboard, Add-On Card
In-House Expert: Charlie Mar
Operating Systems Supported: MS-DOS
Leading Brands Sold: AT Desktop Case, 286-12 Motherboard, 386SX
Special Value Added: One year warranty, technical support

PASADENA COMPUTER CENTER

Store Manager: Linda Yang
1756 E. Colorado Bl
Pasadena, CA 91106
(818)568-9133
Other Locations: New York, West L. A.
Areas of Specialty: In-House Expert: Tech Support Kevin, Lisa
Sales Linda
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Leading Brands Sold: 25MHz 386, 386SX, 286-12

PC SYSTEMS DESIGN CORP.

Store Manager: Jessica Louie, CPA
230 S. Lake Ave.
Pasadena, CA 91101
(818)792-1391
Other Locations: 2860 E. Imperial Hwy., Brea, CA 92621 (714)996-0690;
18009 Sky Park Cr., #B, Irvine, CA 92714 (714)261-8032
Areas of Specialty: Accounting, Networking
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Leading Brands Sold: Hewlett-Packard, Epson, AST
Special Value Added: On-site service, service contracts, training

PC WAREHOUSE

Store Manager: Howard Yuchi
13340 E. Firestone Blvd. #E
Santa Fe Springs, CA 90670
(213)926-7363
Other Locations: 60 Nationwide
10 Southern CA
Areas of Specialty: Hardware
In-House Expert: Daniel Lee and John

Pham

Operating Systems Supported: MS-DOS
Leading Brands Sold: Hewlett-Packard, NEC, Printers
Special Value Added: Warranty, carrying and service, contracts, return policy

PG COMPUTERS

Store Manager: Chuc Pham
2525 Beverly Blvd.
Montebello, CA 90640
(213)714-6338
(213)724-6516
Areas of Specialty: Networking
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Leading Brands Sold: Novell
Special Value Added: Technical consulting, network, on-site service.

PRO COM, INC.

Store Manager: Tom Lewis
1506 Mission St.
So. Pasadena, CA 91030
(818)441-4653
Areas of Specialty: Networking
In-House Expert: Tom Lewis
Operating Systems Supported: MS-DOS, CP/M, Mac OS
Special Value Added: Complete repair available.

QUATEK OUTSTANDING COMPUTER

Store Manager: Ellick Wu
9241 E. Valley Blvd., #104
Rosemead, CA 91770
(818)285-0984
Areas of Specialty: Networking, Accounting
Operating Systems Supported: MS-DOS, OS/2
Leading Brands Sold: Own, Hewlett-Packard, Novell
Special Value Added: On-site training, one year warranty.

REYES ELECTRONICS

Store Manager: Daniel Hou
1224 Santa Anita Ave. #C
So. El Monte, CA 91733
(818)575-0552
Areas of Specialty: Novell Networking, Office Automation
Operating Systems Supported: MS-DOS, OS/2
Leading Brands Sold: Tatung, Packard Bell, DTK
Special Value Added: Factory authorized services.

SOFTWARE 1 COMPUTERS

Store Manager: Frank Lew
18162 E. Colima Rd.
Rowland Heights, CA 91748
(818)964-2298
Areas of Specialty: In-House Expert: Accounting Frank or Pam Lew
Point of Sale Frank Lew
Novell Pam Lew
Operating Systems Supported: MS-DOS
Leading Brands Sold: various

SUPERBYTE INC.

Store Manager: Ed Tusi
10619 E. Rush St.
South El Monte, CA 91733
(818)448-6856
Areas of Specialty: In-House Expert: Service Gordon
Novell installations Gordon

Sales Betty Lee

Operating Systems Supported: MS-DOS, OS/2
Leading Brands Sold: Seagate, CTX, Novell
Special Value Added: Novell networking, custom configured systems

SUPERBYTE, INC.

Store Manager: Jerry Reamer
10617 E. Rush St.
S. El Monte, CA 91733
(818)448-6856
Areas of Specialty: Novell Networking
In-House Expert: Jerry Reamer
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Leading Brands Sold: Seagate, Superbyte, NEC
Special Value Added: One year warranty, X-ship RMA

UNI-CGS COMPUTER

Store Manager: Mr. Thomas Huang
17517 Farica Way #E
Cerritos, CA 90701
(714)521-0867
Areas of Specialty: In-House Expert: Monitors Harry Yuan
Mother Boards Thomas Huang
and systems
Other Computer parts Harry Yuan
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Leading Brands Sold: Computers, Monitors, Keyboards
Special Value Added: Services, warranties, technical support and return policy.

UNIVERSAL COMPUTER CO.

Store Manager: Caroline Tsou
426 N. Sunset Ave.
West Covina, CA 91790
(818)960-2398
Areas of Specialty: Hardware Upgrade, Hardware Wholesale, IBM Compatible Systems
Operating Systems Supported: MS-DOS
Leading Brands Sold: TEAC, Seagate, Western Digital
Special Value Added: One year warranty, software support.

SAN FERNANDO VALLEY

ALLIED INTERNATIONAL PURCHASING

Store Manager: Jacob Dror/Avi Rohen
9427 Lurline Ave.
Chatsworth, CA 91311
(818)882-7034
Areas of Specialty: Desktop publishing, Color imaging, CAD/CAM
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Leading Brands Sold: Apple Macintosh, Sharp, SuperMac
Special Value Added: Installation, complete services

AMERICAL GROUP

Store Manager: Bijan Chardorch
12132 Sherman Way
North Hollywood, CA 91605

(818)765-3040

Other Locations: 14200 Ventura Blvd., Sherman Oaks, CA 91423 (818)906-1132
Areas of Specialty: Computer Supplies
Operating Systems Supported: MS-DOS, OS/2, Mac OS, UNIX/XENIX
Leading Brands Sold: Sony, 3M

AUTOMATION ACCESS

Store Manager: Andrew Grygus
3712 Foothill Blvd.
La Crescenta, CA 91214
(818)248-2348
Areas of Specialty: Multiuser Systems, Network, Repairs
In-House Expert: Andrew Grygus, Julie Calahan
Operating Systems Supported: MS-DOS, CP/M, UNIX/XENIX, Concurrent DOS
Leading Brands Sold: Everex, Panasonic, Alps
Special Value Added: Service, support, return policy, system design installation, support, "buy back" policy

BASIC COMPUTERS

Store Manager: Ted Barnett
3132 Foothill Blvd.
La Crescenta, CA 91214
(818)957-4515
Areas of Specialty: Networking, Desktop publishing, Bible programs
Operating Systems Supported: MS-DOS, UNIX/XENIX
Leading Brands Sold: Epson, Everex, AST
Special Value Added: Hands-on instruction for our customers

BENCE AUDIO

Store Manager: Todd Rogers
7801 Canoga #41
Canoga Park, CA 91304
(818)716-8200
Areas of Specialty: Networking, Commercial-industrial, Music/Theatrical,
Operating Systems Supported: MS-DOS, UNIX/XENIX, Novell
Leading Brands Sold: OTC, Data Products, Western Digital
Special Value Added: Service, training, support

BEST BITS & BYTES

Store Manager: Herb Davis
12104 Sherman Way
North Hollywood, CA 91605
(818)764-9503
Areas of Specialty: Business & Utilities, Adult
Operating Systems Supported: MS-DOS, Mac OS

COMPUHELP

Store Manager: Ilya Mosk
161131 Victory Blvd.
Van Nuys, CA 91406
(818)901-0280
Areas of Specialty: Multimedia, Networking
Operating Systems Supported: MS-DOS, OS/2, AmigaDOS, UNIX/XENIX
Leading Brands Sold: Amiga, Goldstar, Panasonic

COMPUTER COMPANION CORP.

Store Manager: Jerry Denbo
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Reseda, CA 91335
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393 Plus 24 pin, 517/138 cps, 132 col.....	945
393C Plus 24 pin, 517/138 cps, 132 col.....	1025



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Store Manager: Brent Miller/Robert Valery
3537 Old Conejo Rd. #115
Newbury Park, CA 91320
(805)499-6355

Areas of Specialty: Seagate hard drive repair, Miniscribe hard drive repair, Tandon hard drive repair

In-House Expert: Brent/Robert

Operating Systems Supported: MS-DOS

Leading Brands Sold: Seagate, Miniscribe, Tandon

Special Value Added: 6 month warranty on repair; class 100 clean room; 7-10 day turnaround; servo rewrite capabilities

COMPUTER HOUSE

Store Manager: Dwight Kim
7008 Van Nuys Blvd.
Van Nuys, CA 91405
(818)786-3700

Areas of Specialty: Networking, Systems, Printing

Operating Systems Supported: MS-DOS, Mac OS, UNIX/XENIX, Novell

Leading Brands Sold: Novell, Citizen, MainLAN

Special Value Added: 1-year warranty on major products (parts and labor)

COMPUTER PRODUCTIONS ODYSSEY

Store Manager: Michael Allen
1307 S. Shamrock
Monrovia, CA 91016
(818)358-0936

Areas of Specialty: On-Line Services (BBS)

COMPUTERLANE

22107 Roscoe Blvd.
Canoga Park, CA 91304
(818)884-8644

Areas of Specialty: Network, Novell, LANtastic

Operating Systems Supported: MS-DOS

Leading Brands Sold: Toshiba, Compaq, AST

Special Value Added: Training, support

CONSUMER COMPUTING

Store Manager: Chris Carlson
2481 Mission St.
San Marino, CA 91108
(818)799-2290

Areas of Specialty: Desktop Publishing, Entertainment, Database

Operating Systems Supported: MS-DOS, AmigaDOS, Mac OS, Apple II

Leading Brands Sold: Macintosh, Amiga, IBM

Special Value Added: Custom programming, training, on-site installation, printing and desktop publishing.

DEMO SOURCE

Store Manager: Brian Berman
8646 Corbin Ave.
Northridge, CA 91324
(818)772-7729

Other Locations: (408)422-1234

BBS (818)772-0699

Areas of Specialty: BBS, On line Services, Voice Mart

Operating Systems Supported: MS-DOS

Special Value Added: Seminars, publication consulting.

DR. MAC

Store Manager: Barry Light
14542 Ventura Blvd.
Sherman Oaks, CA 91403
(818)501-6581

Areas of Specialty: In-House Expert:

Macintosh software Neal Stafford
Macintosh hardware Bob Izad

Operating Systems Supported: Mac OS

Leading Brands Sold: Quark XPress, PageMaker, Microsoft Word

Special Value Added: 30 day money-back guarantee on most items

DUSTIN DISCOUNT SOFTWARE

Store Manager: Brian Demorest
20969 Ventura Blvd.
Woodland Hills, CA 91364
(818)710-9174

Areas of Specialty: Computer Software

Operating Systems Supported: MS-DOS, OS/2

Leading Brands Sold: Borland, Microsoft, WordPerfect

Special Value Added: Service, full MFG warranties and documentation.

ESPANORE, LTD.

Store Manager: Rick
7270 Bellaire
N. Hollywood, CA 91605
(818)765-0526

Areas of Specialty: Ribbons for over 10,000 printers, Avery Labels, Bulk and brand-name cassettes

Leading Brands Sold: Diskettes: Bulk, Maxell, Sony and Verbatim, Ribbons: Aspen and other compatibles, Labels: Avery

Special Value Added: Ribbons: 1 year. Diskettes: Lifetime

GENERAL EQUIPMENT TECHNOLOGY

Store Manager: Ben Toubian
14950 Ventura Blvd.
Sherman Oaks, CA 91403
(818)986-5080

Other Locations: (213)637-6549

Areas of Specialty: Sales, AST, Everex

Operating Systems Supported: MS-DOS, OS/2, Mac OS

Leading Brands Sold: AST, Everex

Special Value Added: Service, warranty.

GLOCOM PRODUCTS, INC.

Store Manager: Al Meshkat
8938 Mason Ave.
Chatsworth, CA 91311
(818)341-0177

Areas of Specialty: Networking, Manufacturing, Accounting

Operating Systems Supported: MS-DOS, OS/2, Mac OS, VMS, Pick

Leading Brands Sold: Everex, Leading Technology, Colon

Special Value Added: Service, on-site training

GOODMAN MUSIC

Store Manager: Jim Mona
4227 Lankershim Blvd.
North Hollywood, CA 91602
(818)760-4430

Other Locations: 780 S. La Brea Ave., Los Angeles, CA 90036; ask for Greg Greenfield

4631 Van Nuys Blvd., Sherman Oaks, CA 91403; ask for Harry Clay
544 N. Azusa Ave., West Covina, CA 91791; ask for Kenny Smith
4145 Viking Way, Long Beach, CA 90808; ask for Andy Kendall

Areas of Specialty: MIDI Music Software and Hardware, Synthesizers and Digital Pianos, Recording Equipment

Operating Systems Supported: MS-DOS, Mac OS, TOS(Atari)

Leading Brands Sold: Yamaha, Roland, Fostex

Special Value Added: Training, support, warranties, delivery.

HACKER ELECTRONICS

Store Manager: Tim Laren
21016 Devonshire St.
Chatsworth, CA 91311
(818)882-7980

Areas of Specialty: Networking, Windows

Operating Systems Supported: MS-DOS, TOS(Atari), UNIX/XENIX

Leading Brands Sold: Goldstar, Novell, Microsoft

Special Value Added: On-site service

ID DISK

Store Manager: Lyle
21822 Lassen Dr.
Chatsworth, CA 91311
(818)703-7388

Other Locations: (800)527-3475

Areas of Specialty: Duplicate all formats
Operating Systems Supported: MS-DOS, OS/2, CP/M, AmigaDOS, Mac OS, TOS(Atari) UNIX/XENIX

Special Value Added: Fulfillment, packaging, shrink wrapping, optical scanning of IBM text

INTERNATIONAL COMPUTER CENTER

16175 Roscoe Blvd.
Sepulveda, CA 91343
(818)894-1100

Areas of Specialty: In-House Expert:
Networking Henry Gutter

Desktop publishing Mike Mehrdadi

Operating Systems Supported: MS-DOS, OS/2, CP/M, AmigaDOS, Mac OS, TOS(Atari), UNIX/XENIX

Leading Brands Sold: Toshiba, NEC, Compaq

Special Value Added: Service, training, support, warranties

JADE COMPUTER

Store Manager: Ray Gallardo
21800 Ventura Blvd.
Woodland Hills, CA 91364
(818)716-6502

Other Locations: Dallas, Houston, Atlanta, Phoenix

Areas of Specialty: IBM compatible hardware, Service and support, Epson printers and computers

Operating Systems Supported: MS-DOS

Leading Brands Sold: Jade, Hyundai, Epson

Special Value Added: Service, telephone support, manufacturer's warranty. Satisfaction guaranteed or your money back.

JV COMPUTERS

Store Manager: Joseph Vu
7942 Casaba Ave.
Canoga Park, CA 91306

(818)718-1547

Areas of Specialty: CAD, Accounting, POS, Desktop Publishing, Multi Media Products

In-House Expert: Joseph Vu

Operating Systems Supported: MS-DOS

Leading Brands Sold: 80 Data, DTK

Special Value Added: Service, training

MERCURY OFFICE MACHINES

20829 Roscoe Blvd.
Canoga Park, CA 91306
(818)341-7101

Areas of Specialty: PC LAN, For Small/ Med Business, Laser Printer

In-House Expert: Joel Volk

Operating Systems Supported: MS-DOS, OS/2

Leading Brands Sold: Micor eye

Special Value Added: 24 month warranty, complete training, delivery, outside service

METRO COMPUTERS

Store Manager: Mike Allen
29323 Gamebind
Agoura, CA 91301
(818)706-0219

Areas of Specialty: DOS/IBM Windows/ CADD

Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX

MICROWEST COMPUTERS

Store Manager: Isaac Boudaie
9745 Mason Ave.
Chatsworth, CA 91311
(818)998-3416

Areas of Specialty: LANs, Accounting, CAD

In-House Expert: Jacob

Operating Systems Supported: MS-DOS, OS/2

Leading Brands Sold: DTK, Everex, Micronics

Special Value Added: 1 year warranty parts/labor; on-site training; 8-hour-per-day support line

PC BOOK NOOK

Store Manager: Tom Levitt
916 W. Burbank Blvd.
Burbank, CA 91506
(818)567-0016

Areas of Specialty: 1500 book titles

Leading Brands Sold: QUE, Sybex, McGraw-Hill

Special Value Added: Selection. Chances are pretty good we have the computer book you're looking for.

PC SERVICE

22017 Sherman Way
Canoga Park, CA 91303
(818)887-0040

Areas of Specialty: Novell

Operating Systems Supported: MS-DOS, Mac OS

Leading Brands Sold: AST, Citizen, Panasonic

Special Value Added: Repair service, phone support, authorized service center for 20 manufacturers

RANTEK COMPUTER CENTER

Store Manager: Randy Podolsky
22129 Sherman Way
Canoga Park, CA 91303
(818)347-1100

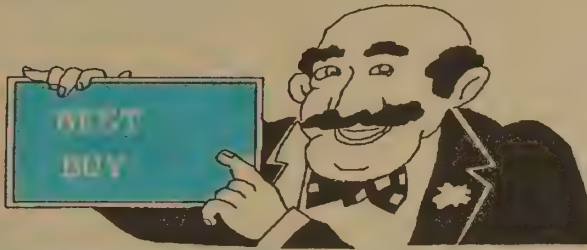
Areas of Specialty: In-House Expert:

Desktop Publishing Dan Neuwirth
Networking Raj Ahuja



COMSTAR SYSTEM

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486™ 25MHz CACHE

- 128K Cache RAM
- 4 Megs RAM
- 1.2 Meg 5.25" Drive
- 1.44 Meg 3.5" Drive
- 130 Meg 18ms IDE Drive
- 16 Bit VGA Card w. 512K
- 14" Color Monitor (1024X768)
- 1 Parallel & 2 Serial Ports
- Deluxe vertical Case
- 250 Watts Power Supply
- 101 Enhance Keyboard

\$3399

386™ 33MHz CACHE

- 64K Cache RAM
- 4 Megs RAM
- 1.2 Meg 5.25" Drive
- 1.44 Meg 3.5" Drive
- 130 Meg 18ms IDE Drive
- 16 Bit VGA Card w. 512K
- 14" Color Monitor (1024X768)
- 1 Parallel & 2 Serial Ports
- Midsize tower Case
- 200 Watts Power Supply
- 101 Enhance Keyboard

\$2499

386™ 25MHz CACHE

- 64K Cache RAM
- 4 Megs RAM
- 1.2 Meg 5.25" Drive
- 1.44 Meg 3.5" Drive
- 65 Meg 23ms RLL Drive
- 16 Bit VGA Card w. 512K
- 14" Color Monitor (1024X768)
- 1 Parallel & 2 Serial Ports
- Midsize tower case
- 200 Watts Power Supply
- 101 Enhance Keyboard

\$2099

386™ 25MHz

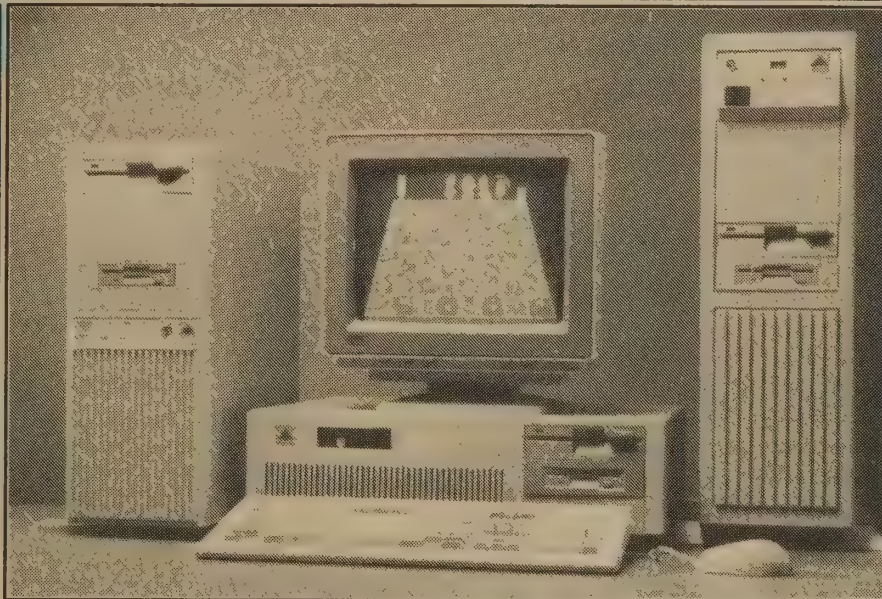
- 2 Meg RAM
- 1.2 Meg 5.25" Drive
- 1.44 Meg 3.5" Drive
- 65 Meg 23ms RLL Drive
- 16 Bit VGA Card w. 512K
- 14" Color Monitor (1024x768)
- 1 Parallel & 2 Serial Ports
- Mini Desktop Case
- 200 Watts Power Supply
- 101 Enhance Keyboard

\$1799

386SX™ 16MHz

- 2 Megs RAM
- 1.2 MB 5.25" Drive
- 1.44 MB 3.5" Drive
- 40 Meg 28ms IDE Drive
- 16 bit VGA Card
- 14" VGA Color monitor
- 1 Parallel & 2 Serial Ports
- Mini Desktop Case
- 200 Watts Power Supply
- 101 key Keyboard
- HI RES Serial Mouse

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286™ 12MHz

- 2 Megs RAM
- 1.2 Meg 5.25" Drive
- 1.44 Meg 3.5" Drive
- 40 Meg 28ms IDE Drive
- 16 bit VGA Card
- 14" VGA Color monitor
- 1 Parallel & 2 Serial Ports
- Mini Desktop Case
- 200 Watts Power Supply
- 101 key Keyboard

\$1150

Hard Drive

20 MB,	65ms	MFM	\$185
40 MB,	28ms	IDE	\$250
65 MB,	23ms	RLL	\$350
80 MB,	23ms	IDE	\$460
104 MB,	23ms	IDE	\$530
130 MB,	18ms	IDE	\$570
150 MB,	17ms	ESDI	\$850
204 MB,	17ms	IDE	\$900
330 MB,	16ms	ESDI	\$1500
670 MB,	16ms	ESDI	\$2280

Other Option

Mini vertical case		\$30
Mid vertical case		\$50
Vertical case		\$80
1.44 MB 3.5" floppy drive		\$65
360 KB 5.25" floppy drive		\$58

Standard Features

- 1 Meg "0" Wait state RAM
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- 1:1 dual HD/FD controller
- 2 Serial, & 1 Parallel
- Mini Desktop case
- 200 Watts Power Supply
- 101 enhance key keyboard
- Math co-processor socket
- 7 or 8 expansion slots
- Clock/Calender with battery

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286-12 \$370

386SX-16 \$699

386-25 \$889

386-25 \$1050

W. 64K Cache

386-33 \$1100

486-25 \$1500

w. 128K Cache

Video card & Monitor

Samsung 12" Mono	\$100
CTX 640x480 VGA	\$400
CTX 1024x768 SVGA	\$500
CTX 1024x768 Multisync	\$600
NEC 3D 14" Multisync	\$800
NEC 4D 16" Multisync	\$1530
NEC 5D 20" Multisync	\$2630
Sampo Tri-Sync 20"	\$1600
Sony 1304 Multiscan	\$830

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4. All shipping and credit card charge are not refundable

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PREVIEW 386SX

- AT Turbo case w/reset and turbo buttons
- 200 Watt power supply
- 386SX Motherboard (Intel CPU)
- 1MB RAM
- 1.2MB Floppy Drive
- Serial and Parallel Ports
- Hard and Floppy Controller
- 101 Enhanced Keyboard

\$775

MICA PRO 386

- Full size vertical case
 - 230 Watt power supply
 - AT 386 Motherboard
 - 1MB RAM
 - Built-in dock and calendar
 - 1.2 MB floppy Drive
 - Serial and Parallel Ports
 - Hard and Floppy Controller
 - 101 Enhanced Keyboard
 - Cache Memory Up-Grade Available
- 80386/20 8/16/20\$1095
80386/25 8/20/25\$1195
80386/33 (64 Cache)\$1595
(Desktop model optional)

PREVIEW 386

- Mini Vertical Case w/200 Watt Power Supply
- AT 386 Motherboard w/1 MB Memory
- (1) 1.2 MB Floppy Drive
- AT I/O (1) Serial, (1) Parallel
- AT Hard & Floppy Controller
- 101 Keyboard

386/25\$1000
386/25 w/64K Cache..\$1125
386/33 w/64K Cache..\$1275

UP-GRADE OPTION:

MONO	99	360 F. DRIVE	54
VGA	375	1.44 F. DRIVE	65
SUPER-VGA	495	40 H. DRIVE	265
20MB H. DRIVE	205	80 H. DRIVE	495
Phoenix DOS 4.01 w/GW Basic	\$65		

PREVIEW 286

- AT turbo case w/200 W power supply
- AT 286 MHz Motherboard w/ 1MB memory
- (1) 1.2MB floppy drive
- AT I/O (1) serial, (1) parallel
- AT hard & floppy controller
- 101 Key Keyboard

286/12\$495
286/16\$595

(Optional)

One full year of **TRW** on-site service



COMPUTER CENTER

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12007 Wilshire Blvd., Los Angeles, CA 90025

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286/12 MHz W/40 MEG & VGA DISPLAY
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286/16 MHz W/40 MEG & VGA DISPLAY
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386SX/16 MHz W/40 MEG & VGA DISPLAY
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\$1695

386/25 MHz TOWER W/40 MEG & VGA DISPLAY
\$1795

386/33 MHz W/64K C TOWER W/40 MEG & VGA DISPLAY
\$2195

MICA's series of systems was designed to give you, the customer, the choice of how you want your system configured.

MICA'S 6 year experience in the industry assures you reliability, quality, good pricing, and on top of it all, good service.

MICA PRO
486-25
\$2895



All prices subject to change without notice
All products mentioned are trademarks of their respective manufacturers.

Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Leading Brands Sold: Everex, ALR, AST
Special Value Added: 6 days a week tech support, same day delivery, on-site service available, best prices in LA

RENAU COMPUTER SYSTEMS

Store Manager: Christine Bacik
 8463 Canoga Ave.
 Canoga Park, CA 91304
 (818)709-2600
Areas of Specialty: Desktop Publishing, CAD/Auto Systems
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Leading Brands Sold: Renau
Special Value Added: One year warranty, parts and labor

S&S COMPUTERS

Store Manager: Paul Simon
 12444 Ventura Blvd., Ste. 207
 Studio City, CA 91604
 (818)508-5278
Areas of Specialty: Desktop Publishing, Accounting, Networking
Operating Systems Supported: MS-DOS, UNIX/XENIX
Leading Brands Sold: Epson printers, Lop Suga Monitors, Western Digital Hard Drives
Special Value Added: Follow up service. 48 hour turnaround service.

SIM-TRADE CO.

Store Manager: Josef Obermeier
 8040 Remmet Ave. #1
 Canoga Park, CA 91304
 (818)703-5155
Areas of Specialty: Hard Drive Repair, Hard Drive Sales, Data Recovery
Operating Systems Supported: MS-DOS
Special Value Added: 4 month warranty on repair, customer service, technical support.

THE ELECTRONIC MUSIC BOX

Store Manager: Peter Brunner
 14947 Ventura Blvd.
 Sherman Oaks, CA 91403
 (818)789-4250
Other Locations: BBS (818)789-2487
Areas of Specialty: Music Applications, Direct Hard Disk Recording
Operating Systems Supported: MS-DOS, OS/2, Master Trac, AmigaDOS, Mac OS, TOS(Atari)
Leading Brands Sold: Performer, Master Tracks Pro, Finale
Special Value Added: MIDI seminars, user groups, specialized training.

TOTAL PUBLIC DOMAIN

Store Manager: Anthony Shalita
 11684 Ventura Blvd. #428
 Studio City, CA 91604
 (818)785-7811
Areas of Specialty: Public domain software
Operating Systems Supported: MS-DOS

UPGRADES, ETC., INC.

Store Manager: Steve Stern
 23930 Craftsman Rd.
 Calabasas, CA 91302
 (818)884-6417
Areas of Specialty: Rom Bios Upgrades, Motherboard Upgrades
Operating Systems Supported: MS-DOS, OS/2

Leading Brands Sold: AMI, Phoenix, Award
Special Value Added: 30 day money-back guarantee. On-site upgrades technician.

WESTSIDE

ATLAS MICRO DISTRIBUTING, INC.

Store Manager: David Farman
 2730 Monterey St. #102
 Torrance, CA 90503
 (213)782-6000
Areas of Specialty: Wholesale Computer Parts
In-House Expert: David Farman, Tony Arif
Operating Systems Supported: MS-DOS, AmigaDOS
Leading Brands Sold: IBM Compatibles
Special Value Added: Service, support, warranties, return policy.

CAMPBELL COMPUTER CONSULTING

Store Manager: John Campbell
 24825 S. Western Ave., Ste. 173
 Lomita, CA 90717
 (213)519-1120
Areas of Specialty: Custom programming, Dbase, C, Pascal, Basic
In-House Expert: John Campbell
Operating Systems Supported: MS-DOS, Mac OS, UNIX/XENIX
Special Value Added: Custom programming, training, installation, and service.

CFR COMPUTERS FOR RENT

Store Manager: David Sonnenfeld
 11170 Washington Blvd.
 Culver City, CA 90232
 (213)202-6017
Other Locations: Anaheim, San Diego, Phoenix, Tucson, Alabama, Chicago
Areas of Specialty: Rental of IBM compatible equipment-including all peripherals
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Special Value Added: Complete service, technical support, training

COMPUTER BUSINESS CENTER

Store Manager: Joseph Jacobson
 2811 Ocean Park Blvd.
 Santa Monica, CA 90405
 (213)452-2027
Areas of Specialty: System Integration and Repair
In-House Expert: Joseph Jacobson
 System Integration and Support Steve Quinn
Operating Systems Supported: MS-DOS, CP/M
Leading Brands Sold: Jacobson Systems, AST, NEC
Special Value Added: One year warranty on Jacobson Systems.

COMPUTER RESOLUTIONS

Store Manager: Ashok K. Garg
 16900 S. Lakewood Bl. #204
 Bellflower, CA 90706
 (213)804-0470
Other Locations: 1
Areas of Specialty: Novell Networking, Autocad, Custom Software
Operating Systems Supported: MS-DOS, Mac OS
Special Value Added: Service, support,

training, warranty

COMPUTER WIZ

Store Manager: Henry Chou
 18506 Hawthorne Blvd.
 Torrance, CA 90504
 (213)371-6553
Areas of Specialty: Home & business Hardware Networking, DTP
In-House Expert: Sam Tor David Gonzalez Tony King
Operating Systems Supported: MS-DOS, OS/2
Leading Brands Sold: AST, Compaq, Toshiba
Special Value Added: Service, on-site maintenance, 1-year parts/labor

COOPERATIVE SYSTEMS

Store Manager: Wilson Mar
 1820 Carson St., Ste. 224
 Torrance, CA 90501
 (213)320-7878
Areas of Specialty: Automated Meetings, Computer Projection Screens, HR, Marketing and Sales
Operating Systems Supported: MS-DOS
Leading Brands Sold: Infocus, Grandview, Microsoft
Special Value Added: Motivation and meeting facilitation, preparation, training.

CREATIVE COMPUTER

Store Manager: Michael McNearny
 4453 Redondo Beach Blvd.
 Lawndale, CA 90260
 (213)542-2292
Other Locations: 2
Areas of Specialty: Video Graphics and Animation, Music, Multimedia
Operating Systems Supported: AmigaDOS, Mac OS, UNIX/XENIX
Leading Brands Sold: Commodore, Hewlett-Packard, Sony
Special Value Added: Service, training, support, extended warranties, low prices, custom configurations.

DATA DYNAMICS RETAIL

Store Manager: Mike Sandlin
 3715 E. South St.
 Long Beach, CA 90805
 (213)602-0946
Other Locations: 18318 Beach Blvd.
 Huntington Beach, CA 92648 (714)847-0670
Areas of Specialty: Hardware Repair, Hardware Upgrade, Over 3,000 Shareware Titles
In-House Expert: Mike Sandlin
Operating Systems Supported: MS-DOS
Leading Brands Sold: Microdyne Computers, Citizen, Logitech
Special Value Added: Service, support, one year warranty parts and labor on systems.

FUTURE COMPUTER

Store Manager: Steve Kim
 15622 S. Crenshaw Blvd. C
 Gardena, CA 90249
 (213)323-9322
Areas of Specialty: PC Networking CAD/CAM consulting
In-House Expert: Steve Kim James Chang Thomas Kim
Operating Systems Supported: MS-DOS, CP/M, Mac OS, UNIX/XENIX
Leading Brands Sold: Epson, PC compatible
Special Value Added: 18 month warranty

parts/labor, consulting

GATETRONIX CONTROL SYSTEMS, INC.

Store Manager: Ben Nguyen
 15541 Broadway Center St.
 Gardena, CA 90248
 (213)715-6086
Areas of Specialty: Novell Networking Technical Service and Support
In-House Expert: Kim Nguyen Ben Nguyen
 DOS Training Linda Steele
Operating Systems Supported: MS-DOS, OS/2
Leading Brands Sold: Fujitsu, PC-Clone
Special Value Added: DOS training and end-user software (such as Lotus, WordPerfect).

HB COMPUTER TECHNOLOGY CO.

Store Manager: Bruce Helematinion
 12704 Yukon Ave.
 Hawthorne, CA 90250
 (213)644-2602
Operating Systems Supported: MS-DOS, OS/2, Mac OS, UNIX/XENIX
Leading Brands Sold: IBM, Compaq, Apple
Special Value Added: Depot service and warranty

INTEGRATED COMPUTER SYSTEMS

Store Manager: Tony Pok
 1813 Redondo Ave.
 Long Beach, CA 90804
 (213)494-1230
Areas of Specialty: CAD Desktop publishing Technical illustration
In-House Expert: Tony Pok Chuck Barrick Jenny Pok
Operating Systems Supported: MS-DOS, Mac OS
Leading Brands Sold: CalComp, AutoCAD, VersaCAD
Special Value Added: On-site training and support, service office, extended warranty

JADE COMPUTER

Store Manager: Bob White
 18503 S. Hawthorne Blvd.
 Torrance, CA 90504
 (213)370-7474
Other Locations: Dallas, Houston, Atlanta, Phoenix
Areas of Specialty: IBM compatible hardware, service and support, Epson printers and computers
Operating Systems Supported: MS-DOS
Leading Brands Sold: Jade, Hyundai, Epson
Special Value Added: Service, telephone support, manufacturer's warranty. Satisfaction guaranteed or your money back.

LAZER LIFE

Store Manager: Chris Roberts
 P.O. Box 2555
 Redondo Beach, CA 90278
 (213)374-3835
Areas of Specialty: Recharging laser printer cartridges
In-House Expert: Chris Roberts
Operating Systems Supported: MS-DOS
Special Value Added: Highest quality available; instant on-site service; guaranteed work

MAGNA DATA

Store Manager: Arlette Jacob

MICROTIMES 1991 SOUTHERN CALIFORNIA COMPUTER RESELLER GUIDE

8629 Washington Blvd.
Culver City, CA 90232
(213)559-0338

Other Locations: San Mateo

Areas of Specialty: Desktop Publishing, Networking, Consulting

Operating Systems Supported: MS-DOS, OS/2, Mac OS

Leading Brands Sold: IBM, Apple, Compaq

Special Value Added: Service, training, support, warranties, return policy.

MESHTLE

Store Manager: Michael Eshagnia
1242 Third St. #103
Santa Monica, CA 90401
(213)394-3694

Areas of Specialty:

Computer fax card

Computer voice mail box

Computer accessories

In-House Expert:

Michael Eshagnia

Mathio Tasooji

Reza Eshagnia

Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX

Leading Brands Sold: Frecom fax card, Citizen printer, 80 Data computers

Special Value Added: Service plans, training, technical support

NETWORLD LTD.

Store Manager: Hector S. Aizcorbe
18436 Hawthorne Blvd. #205
Torrance, CA 90504
(213)370-1005

Areas of Specialty:

Novell Networks

Accounting Packages

In-House Expert:

Hector S. Aizcorbe

Jerry Quincan

Systems and Programming Richard V. Bree

Operating Systems Supported: MS-DOS

Leading Brands Sold: Novell, Network IBM Compatibles, Data Boards

NEWTECH COMPUTERS

Store Manager: H.W. Liao
15433 Hawthorne Blvd.
Lawndale, CA 90260
(213)675-5135

Areas of Specialty: IBM PC Compatibles

In-House Expert: Kim Ling

Operating Systems Supported: MS-DOS

Leading Brands Sold: New Tech, Chicotech

Special Value Added: After sale consultation. One year warranty for parts and labor.

SPECIALIZED BUSINESS SOLUTIONS

Store Manager: Michael Gebb
215 Long Beach Blvd. Suite 523-43
Long Beach, CA 90807
(800)359-3458

Areas of Specialty: Point of sale/inventory control

In-House Expert: Mike or Dana

Operating Systems Supported: MS-DOS

STAR SYSTEMS TECHNOLOGY

Store Manager: Allen James
4547 W. Rosecrans Ave.
Hawthorne, CA 90250
(213)675-5303

Operating Systems Supported: MS-DOS, OS/2, Novell

Leading Brands Sold: AST, SHARP, Cordata

Special Value Added: One year defective parts and labor on site service agreements.

SUN COMPUTERS, INC.

20925 S. Bonita St.
Carson, CA 90746
(213)329-8373

Other Locations: Torrance (213)325-6200

Monterey Park (818)570-0901

Tarzana (818)708-9988

W. Los Angeles (213)477-6538

El Toro (714)859-1818

Huntington Beach (714)848-5574

San Diego (619)565-1881

La Mesa (619)462-8882

San Diego (619)535-9888

Bakersfield (805)837-2400

Areas of Specialty: DTP, CAD, System Support

Operating Systems Supported: MS-DOS, OS/2, Mac OS, UNIX/XENIX

Leading Brands Sold: Apple, Compaq, Hewlett-Packard

Special Value Added: Service, warranties, training, support, return policy.

SYS TECHNOLOGY, INC.

Store Manager: Louis Sun
10655 Humbolt St.
Los Alamitos, CA 90720
(213)493-6888

Areas of Specialty:

Networks

Workstation

File Servers

In-House Expert:

Russ Murphy

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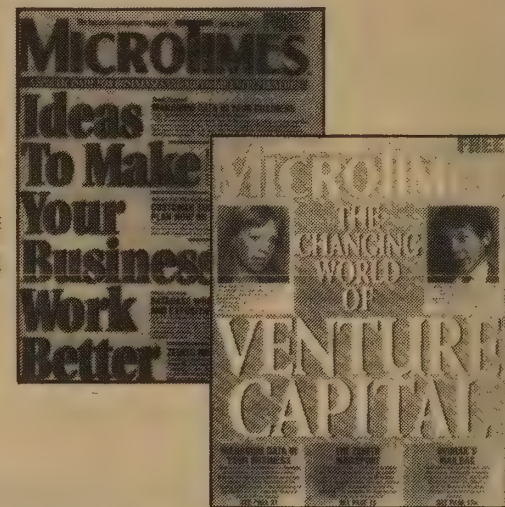
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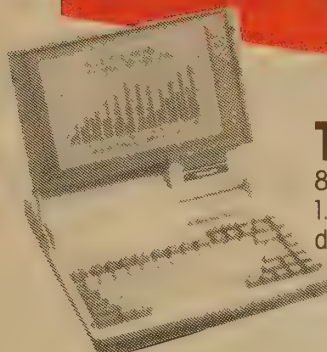
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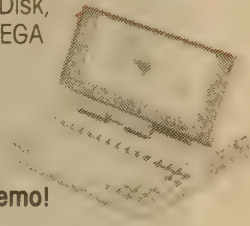
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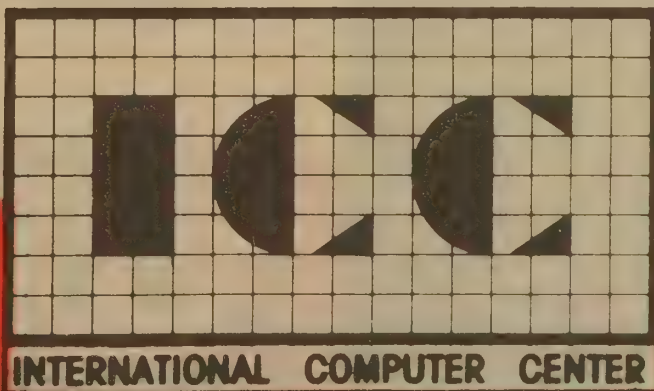
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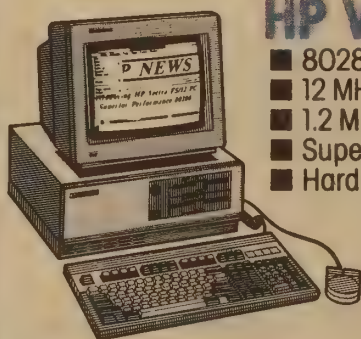
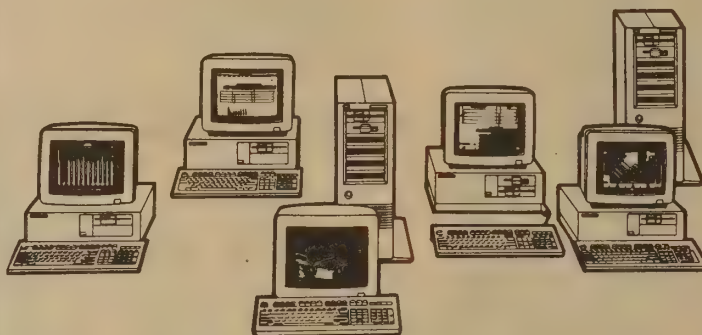
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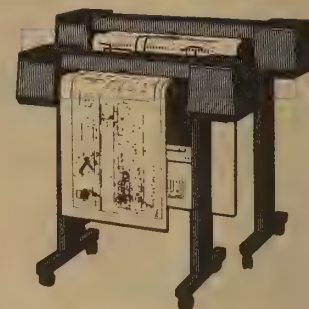


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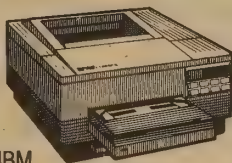


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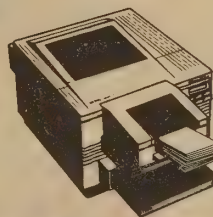


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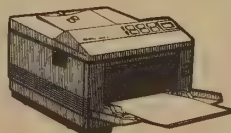
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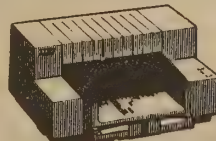


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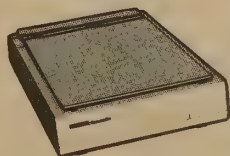
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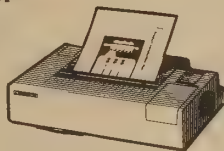
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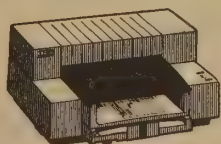


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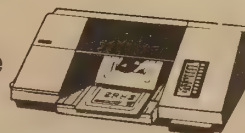
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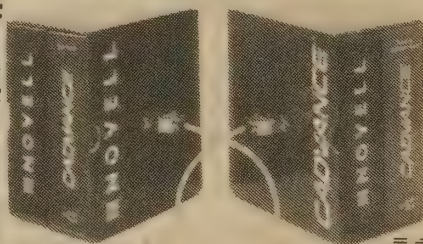
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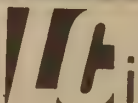
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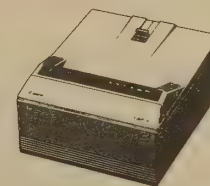
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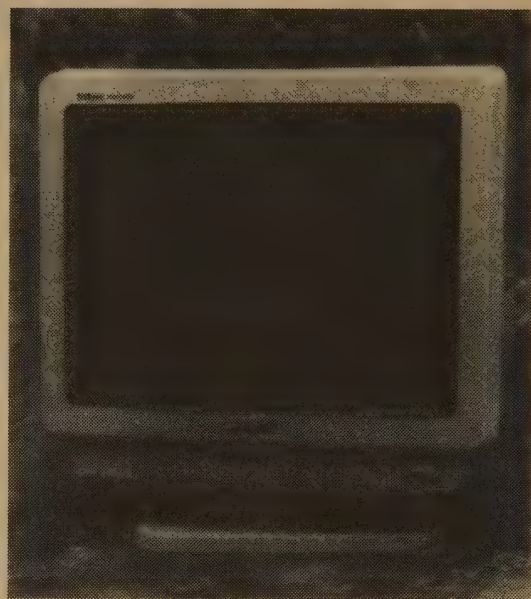
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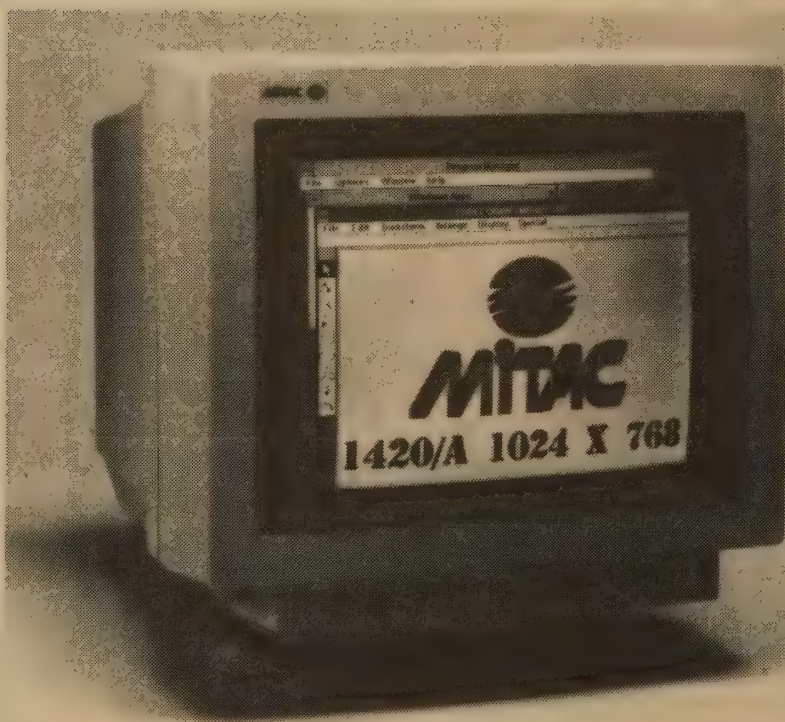
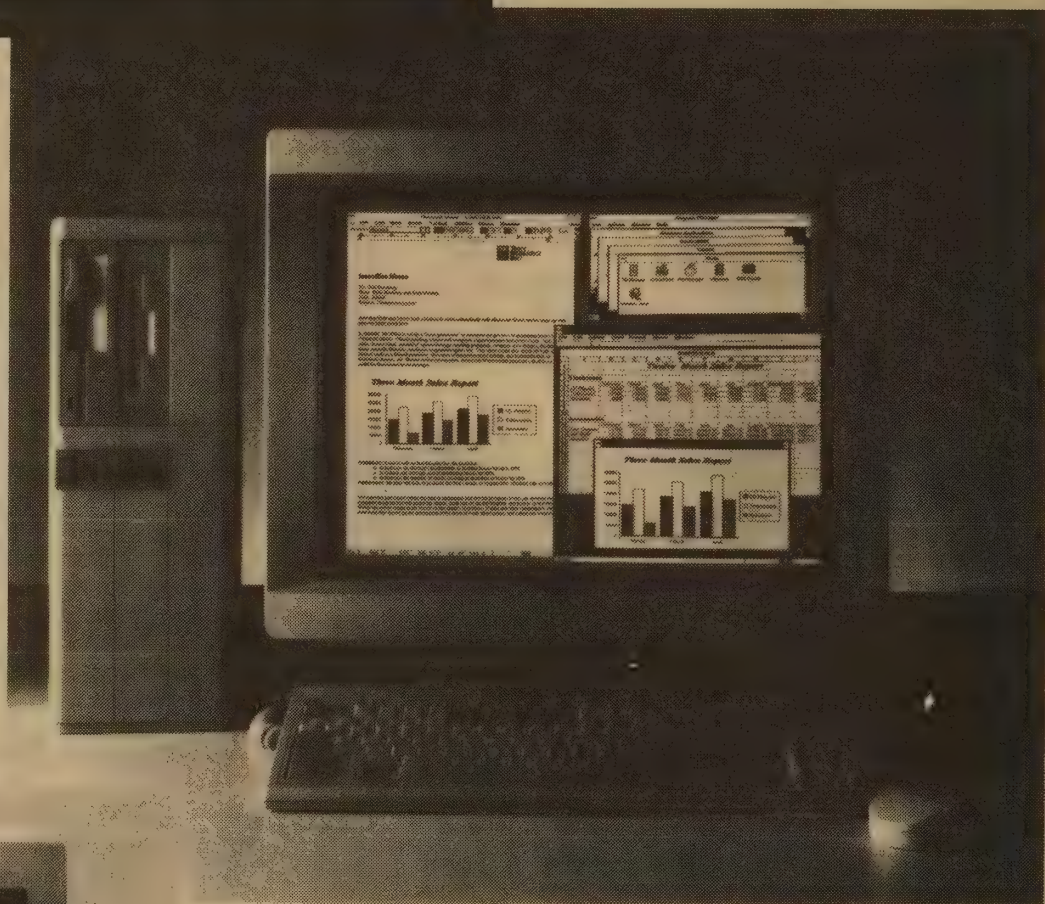
One-year limited warranty and free technical support is provided by Packard Bell. (\$899) Packard Bell, Inc., 9425 Canoga Ave., Chatsworth, CA 91311. (818)773-4400, Fax (818)773-9521.



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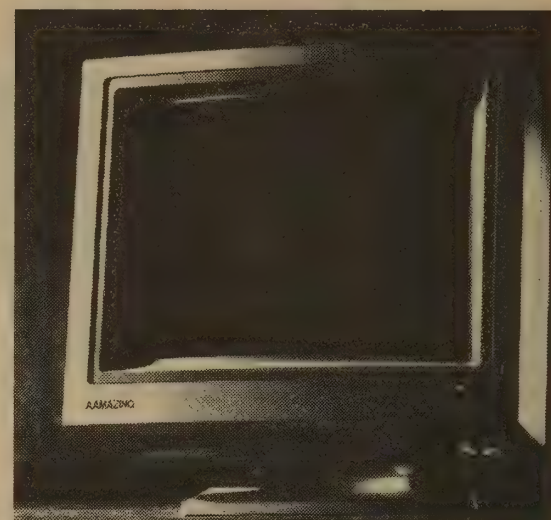
SIGMA DESIGNS LOW VLF MONITORS

Sigma Designs has begun selling monitors in the US for Macintosh and IBM compatible computers that meet VLF (Very Low Frequency) emission standards set by the Swedish government. The low-VLF versions of the 15" Page View, 19" L-View and 21" Silver View monitors each have suggested retail prices \$200 above standard systems currently sold. The 21" Silver View series includes a monochrome and 256 gray shades monitor for both the Macintosh and PC AT computers with resolution of 1152 x 870. (Prices range from the Page View VLF for Macintosh, \$1299, through the Silver View VLF for PC AT, \$3695) Sigma Designs, Inc., 46501 Landing Pkwy., Fremont, CA 94538. (415)770-1000.



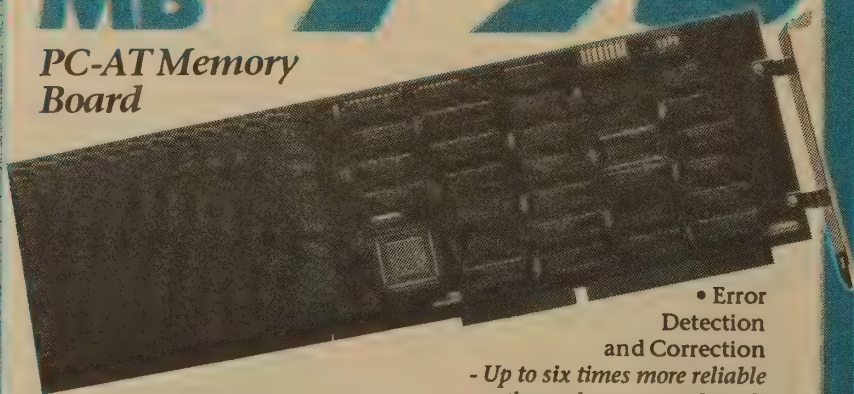
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Aamazing Technologies has introduced a 1024 x 768 resolution, 14", analog multisync color monitor, the CM-61428. This monitor offers 256 simultaneous colors and full compatibility with VGA, SuperVGA and 8415/A standards. Its horizontal scan frequency is 31.5kHz to 38kHz, and vertical scan frequency at 45kHz to 90Hz. The 0.28mm dot pitch displays sharp images while the non-glare, etched, dark tinted screen makes eye fatigue almost nonexistent. The addition of the CM-61428 completes the line of monitors from Aamazing Technologies that range from 9" to 21" models. According to Julius Chiang, president of Aamazing Technologies, "We see our products as alternatives to NEC's line." (\$639) Aamazing Technologies Corp., 5980 Lakeshore Dr., Cypress, CA 90630. (714)826-9681.



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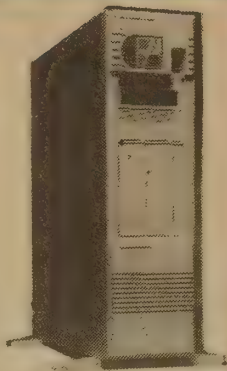
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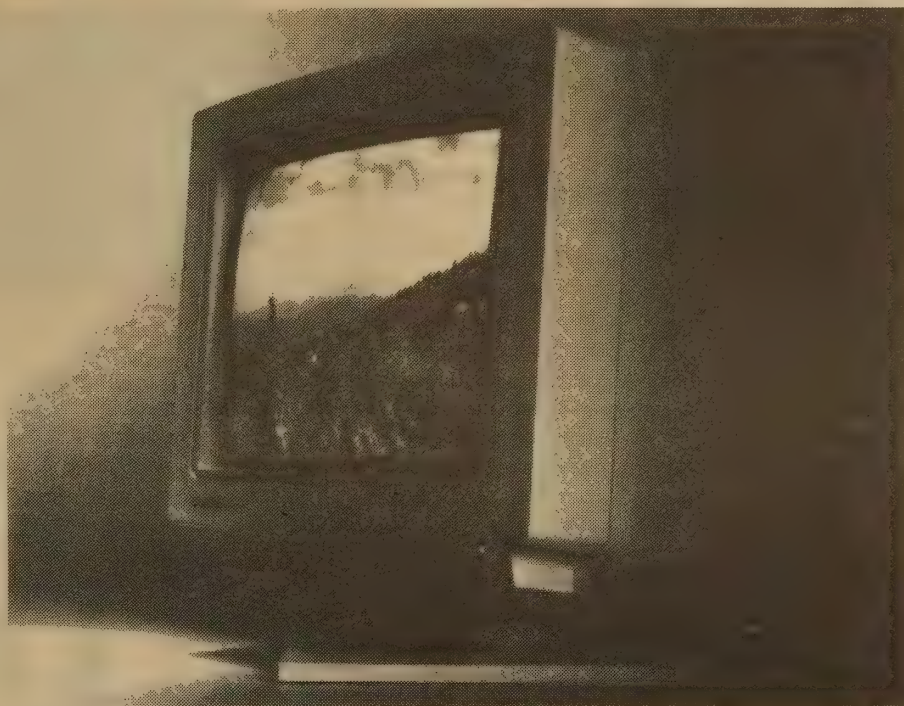
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AMERICAN DIGITAL DATA ASSOCIATES

NEW PRODUCT BUYERS GUIDE

GOLDSTAR REDESIGNS COLOR MONITORS

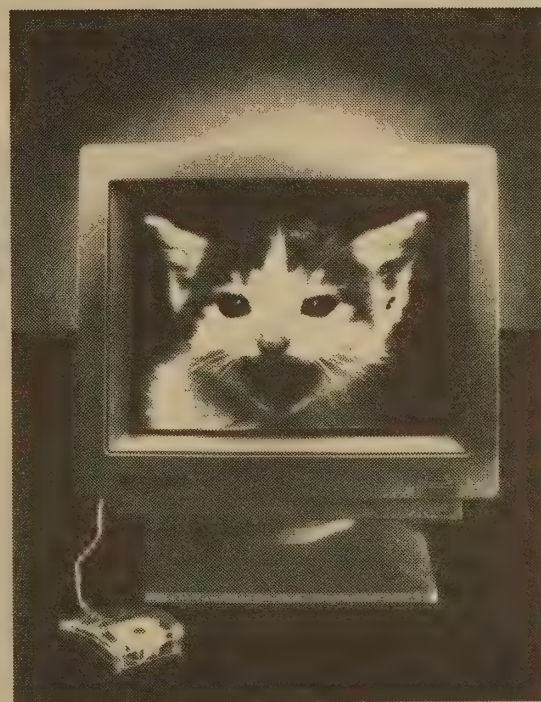
The Goldstar 1450 Plus is a 14" analog monitor with SuperVGA, VGA and Macintosh II compatibility. This monitor features a new look that includes sliding brightness and contrast controls, ergonomic design and a soft gray color that blends into any office decor. The 1450 Plus RGB monitor offers 800 x 600, 640 x 480, 720 x 350 or 640 x 350 resolution and up to 256 colors on a non-glare body face. The complete line of Goldstar Plus monitors includes four 14" analog monitors: two RGB and two 256 color monitors. (Goldstar Plus monitor family from \$299 to \$1199) Goldstar Technology, Inc., 3003 N. 1st St., San Jose, CA 95134. (408)432-1331, Fax (408)432-6053.



M MONITORS

NANAO LOW EMISSIONS, HIGH RESOLUTION MONITOR

The Nanao FlexScan 9060S is a high resolution, multi-scanning, color monitor compatible with IBM PS/2, PC, XT, AT and compatible computers, and the Apple Macintosh II. The size and flexible display range make it ideal as user needs change and graphics standards advance across applications, including word processing, spreadsheets, CAD/CAM and desktop publishing. A newly developed Saddle/Saddle deflection yoke with a built-in special coil reduces low-frequency magnetic radiation to the level recommended by the Swedish National Institute of Radiation Protection. It also features a Dynamic Focusing Circuit and a Side-Pin Fine-Adjust control, enabling users to eliminate any side-to-side image distortion and make precise adjustments to suit the choice of display mode. (\$995) Nanao USA Corp., 23510 Telo Ave., Suite 5, Torrance, CA 90505. (213)325-5202.

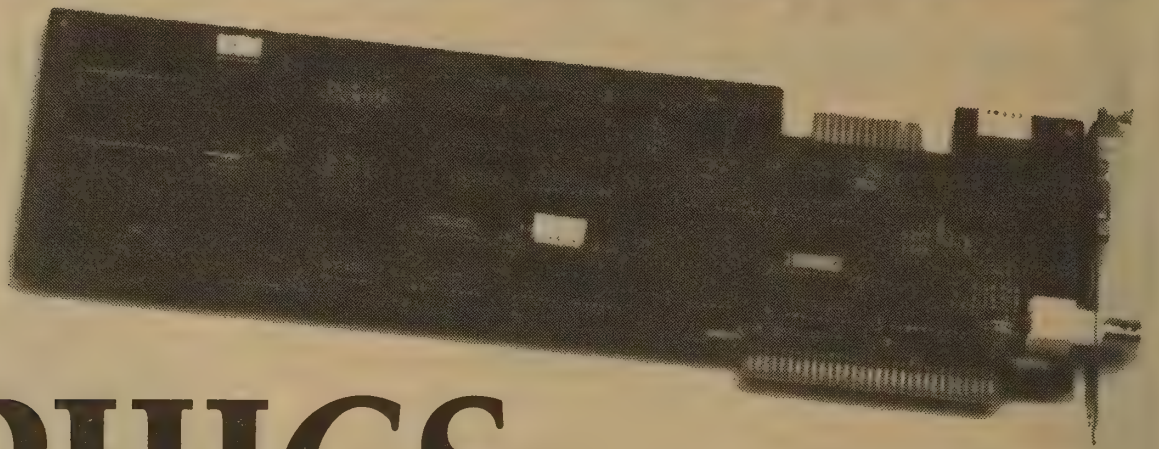


A REALLY BIG VIEW

TeleSensory, Inc., has forged an important link between video magnifiers for low vision people and personal computers. Its new Lynx monitor can display any image from a video camera, VCR or Closed Circuit Television (CCTV) on a VGA computer screen. Lynx circuit boards can be installed on all TeleSensory Vista VGA screen enlargers for IBM PC, XT, and AT compatibles or Vista/2 for IBM PS/2 microchannel models. When Lynx and Vista are used with TeleSensory CCTV camera, visually impaired users can enlarge both computer images and print material to a comfortable viewing magnification. All Lynx commands are given through a three button mouse that is supplied with the Vista system. TeleSensory, Inc., 455 N. Bernardo Ave., PO Box 7455, Mountain View, CA 94039. (415)960-0920.

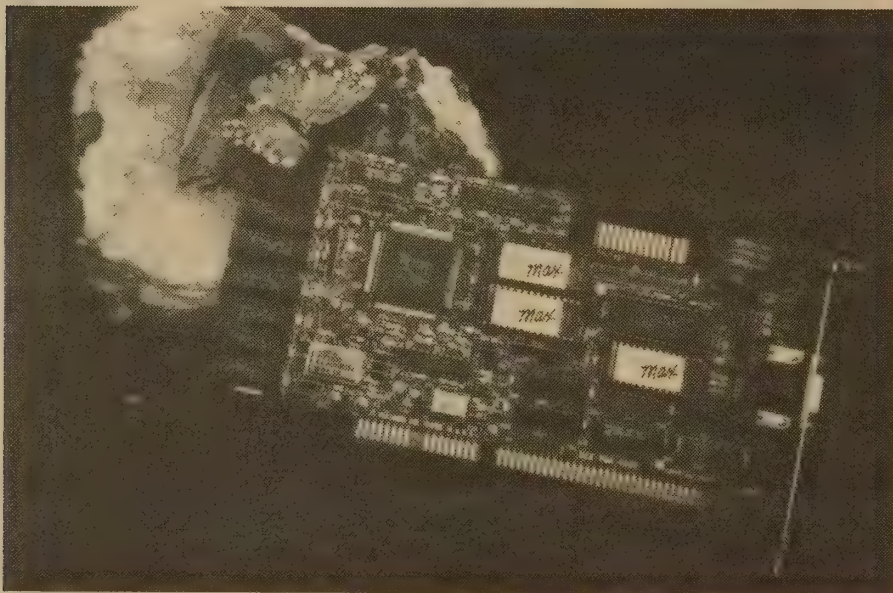


GRAPHICS BOARDS



GRANDSLAM COVERS ALL BASES

United NetWorks, Inc. (UNI), a new San Jose-based company, has introduced a strong line-up of GrandSlam 3270 adapters that includes its GrandSlam 3270 VGA adapters. This product combines SuperVGA graphics and communications on a one-slot 8-bit adapter. The GrandSlam 3270 VGA supports resolutions of 1024 x 768 in four colors and resolutions of 800 x 600 x 480 in up to sixteen colors, with 256K of memory and communications combined on a single card. (\$795) United NetWorks, Inc., 2178 Paragon Dr., San Jose, CA 95131. (408)436-2800.



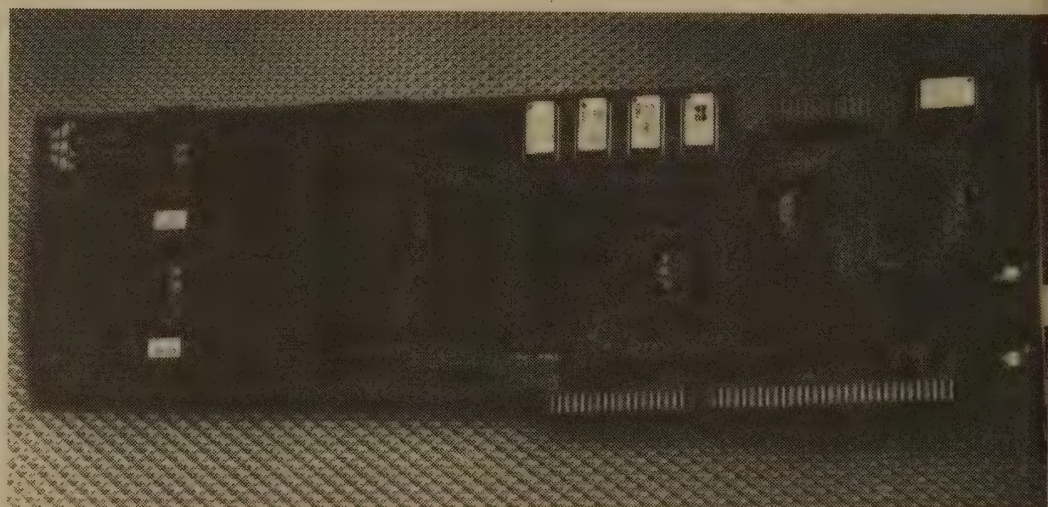
FOCUS COMPLETELY TO THE MAX

Focus Information's 2-the-Max VGA 4000 is a high-resolution SuperVGA card for IBM compatible computers. Using the latest Tseng Labs ET4000 graphic chip-set, 2-the-Max offers a flexible memory configuration expandable to 1Mb and 1024 x 768 resolution with up to 256 displayable colors in all standard and extended graphic modes. Focus Information provides a one-year guarantee and a seven-day turn-around service program. (Priced between \$295 and \$395, depending upon memory configuration) Focus Information Systems, Inc., 42840 Christy St., Suite 102, Fremont, CA 94538. (415)327-3434.

THE NEXT STEP FROM NUMBER NINE COMPUTER

Number Nine Computer Corp. burst on the scene in 1982 with the introduction of its first high resolution PC graphics board. For 1990 they have announced the Number Nine Graphics Xccelerator (#9GX), a graphics board that is easily upgradeable, able to handle both bit-mapped and vector graphics and capable of 1280 x 1024 resolution for under \$2000. The #9GX is designed for use with all PC XT, AT or 100% IBM compatible computers and supports standard VGA, EGA,

CGA and MDA emulations. It supports a wide variety of software applications, including WordPerfect, Lotus 1-2-3, PageMaker, Ventura, Corel Draw, Windows 3.0 and many more. Number Nine Computer Corp., 725 Concord Ave., Cambridge, MA 02138. (617)492-0999.



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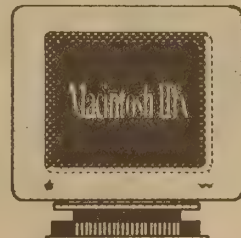
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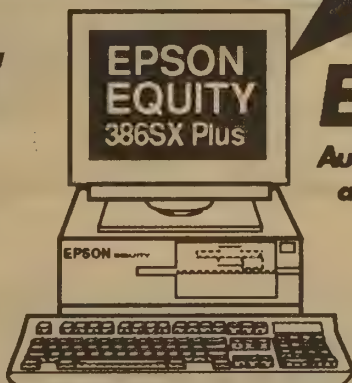
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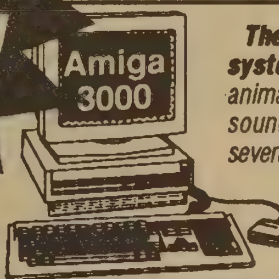
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COMMODORE
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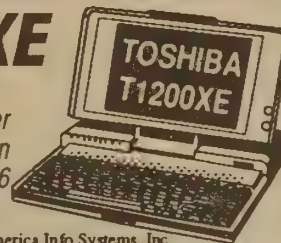
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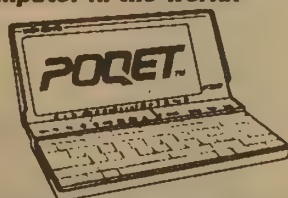
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- Exchange files with PC or Mac.
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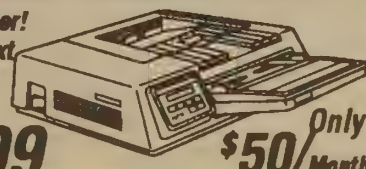
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- Full 300 DPI Graphics & Text
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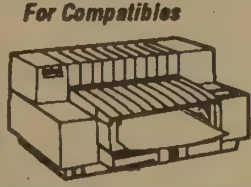


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NEW DeskJet 500

For Compatibles

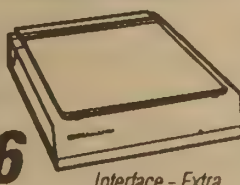
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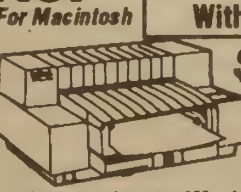


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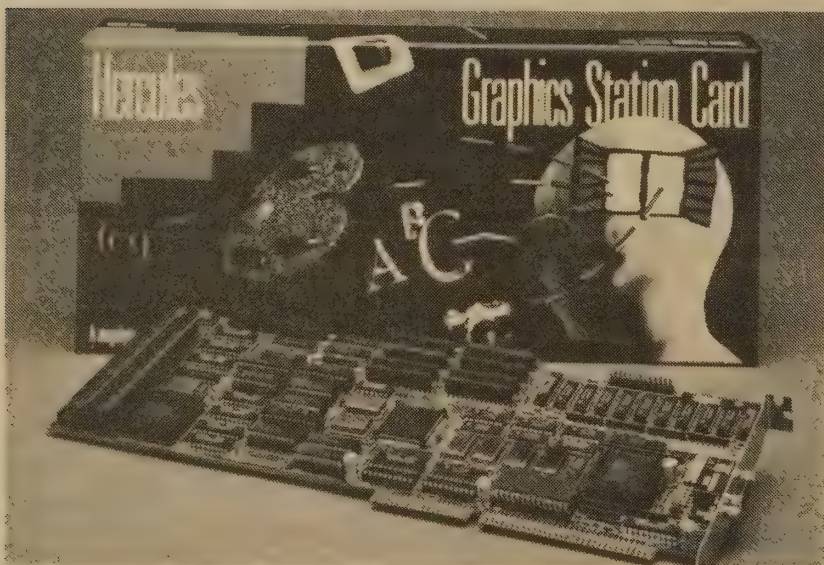
GRAPHICS BOARDS

TRUTH-IN-VISION

Capture and display images with high spatial and high color resolution with an ATVista from Truevision. These boards are an ideal solution for high-end graphics applications from video production and graphic design to digital pre-press and medical imaging. NTSC and PAL compatibility, multiple bit/pixel settings, programmable capture and display resolutions and a 32-bit coprocessor are just a few of the features. ATVista is designed for use in IBM PC AT and compatible computers. Truevision, Inc., 7340 Shadeland Station, Indianapolis, IN 46256. 1-800-858-TRUE.

HERCULES TRUE COLOR GRAPHICS

The new high-performance graphics board for IBM-compatible computers, the Hercules Station Card, offers true color capabilities for pre-press and design solutions as well as increased speed for graphics intensive applications such as Windows, DTP and CAD. It is the only card that combines built-in VGA with a Texas Instruments 34010 graphics coprocessor and 24-bit color. Standard with 1Mb VRAM (video memory), this card supports a maximum resolution of 1024 x 768 with 256 colors from a palette of 16.7 million colors. (\$1024) Hercules Computer Technology, Inc., 921 Parker St., Berkeley, CA 94710. (415)540-6000.



RASTEROPS DOES PC

RasterOps Corp., a leader in color technology for the Macintosh, has entered the IBM marketplace with the RasterOps 1024MC, the first 24-bit True Color board for IBM PS/2 computers. Operating with IBM Micro Channel Architecture products, the 1024MC is capable of displaying 16.7 million colors. This capability is particularly crucial in desktop publishing, color pre-press and design applications where the display image and printed copy must match. RasterOps Corp., 2500 Walsh Ave., Santa Clara, CA 95051. (408)562-4200, Fax (408)562-4065.



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- 16 Bit VGA Monitor Card
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- AT I/O (2S, 1P, 1G)
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- Serial Mouse
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Sony 1304 Multiscan	\$785
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2400 baud modem external	\$95
Panasonic	
1180/1124/1624	\$159/\$275/\$369
Epson LQ 510	\$275

NEW PRODUCT BUYERS GUIDE

FUJITSU DEX 80

The new personal size facsimile from Fujitsu, the dex 80, is easy to operate and doesn't skimp on features. For business and home offices with only a single telephone line, the dex 80 offers advanced line sharing, including an answering machine interface to ensure that users will receive all of their incoming voice and fax messages when they are away from their desks. Other standard features include an auto dialer with ten one-touch and ten speed-dial locations, selective rejection, which allows the dex 80 to be programmed to reject incoming facsimiles from up to fifty designated telephone numbers, and a five page automatic document feeder. (\$999)

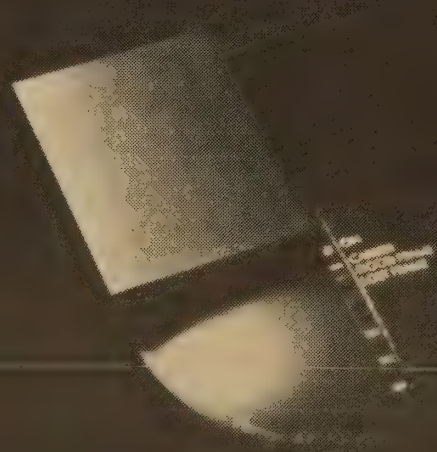
Fujitsu Imaging Systems of America, Inc.,
3 Corporate Dr., Commerce Park,
Danbury, CT 06810. (203)795-5400.



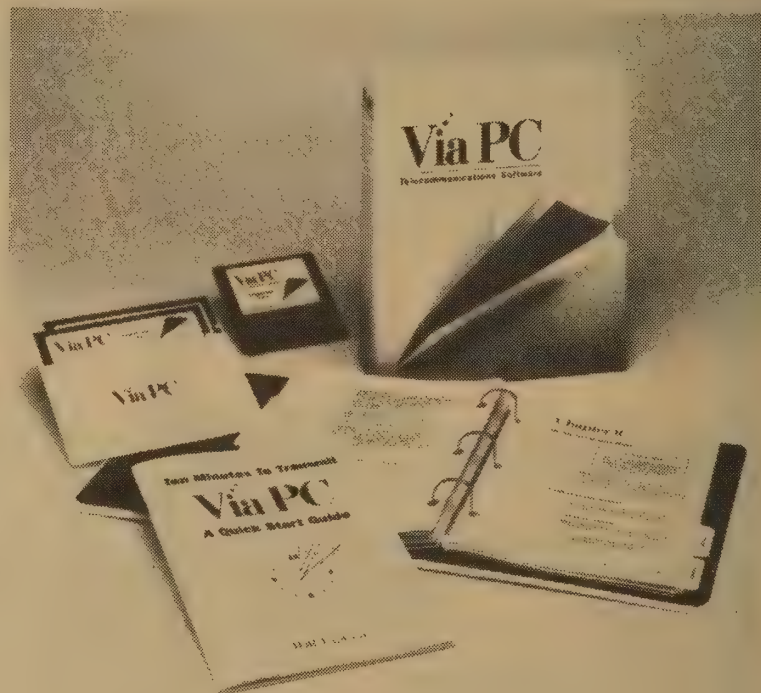
C O M M U N I C A T I O N S

LINKS WITHOUT CABLES

GEC-Marconi Software Systems has introduced the world's first proven cable-free computer connection. The Verran AC DataLink is a sleek device that lets a PC communicate with a printer, plotter, modem or other peripheral. It also lets a minicomputer communicate with a terminal. DataLinks works in pairs, one attached to the sending device and the other to the receiving device. Once each DataLink is plugged into a



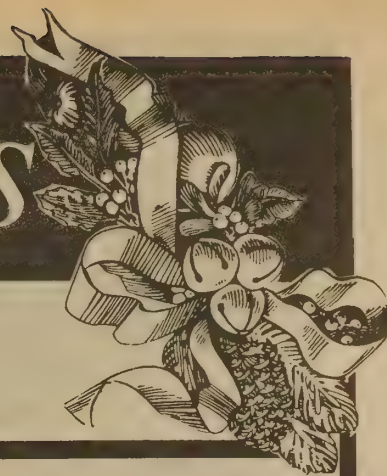
standard electrical outlet, data is transmitted through the building's AC circuit. It can connect peripherals with either serial or parallel ports and works in any computer environment. (\$345) GEC-Marconi Software Systems, Inc., 12110 Sunset Hills Rd., Suite 450, Reston, VA 22090. (703)648-1551.



SEND IT ALL VIA PC SOFTWARE

IBM PC users can now send or receive messages by Fax, Telex, TWX and Modem from anywhere at any time with one integrated software program, Via PC telecommunications software, from IDR UniCom. Using Via PC to communicate will mean easy access to the four most popular modes of business telecommunications. It also means shorter lines at the Fax machine, tighter security for confidential messages and better control overall. (\$595) IDR UniCom, Inc., 400 Stenton Ave., Plymouth Meeting, PA 19462. (215)825-8181.

Christmas Specials



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You can go anywhere and do almost anything with the ATARI *Portfolio* handheld computer. Built in software makes this a powerfull notebook, diary, or even a spreadsheet or database. New software is expanding the potential of this already exciting computer. Please stop by for a demonstration of the ATARI *Portfolio* and more information on two exciting packages available for the *Portfolio*.

START UP PACKAGE

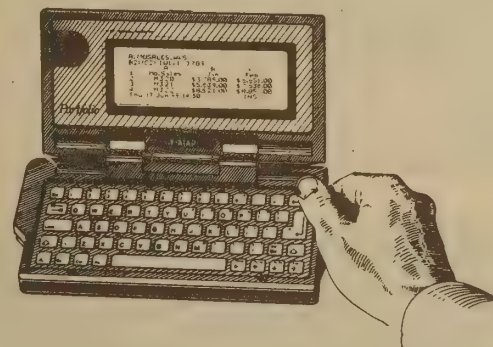
Includes Portfolio, File Manager software, 32K RAM card, and parallel interface for printing and file transfer.

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Includes Portfolio, File Manager software, 128K RAM card, and PC Card Drive for instantaneous file transfer.

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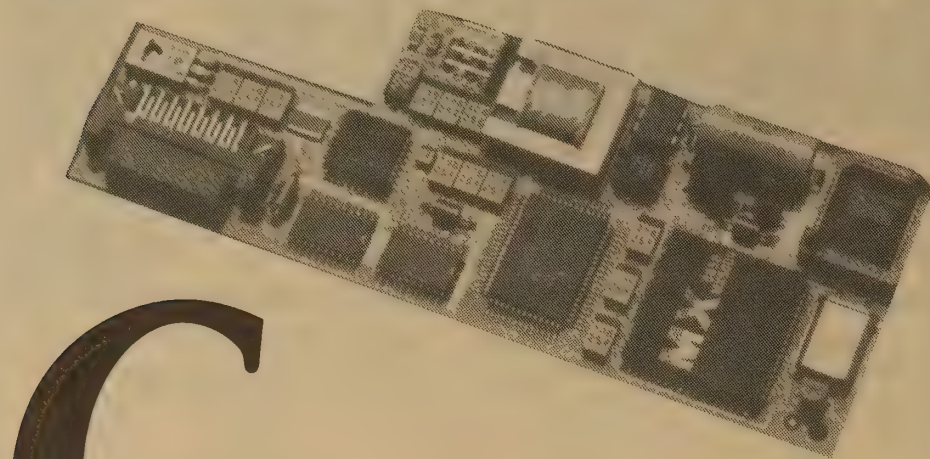
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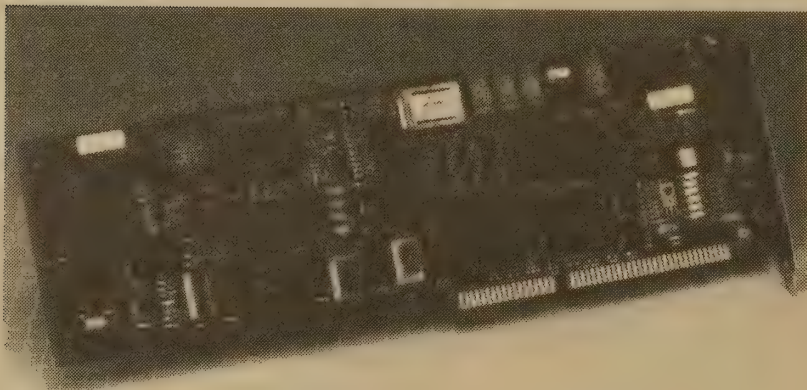
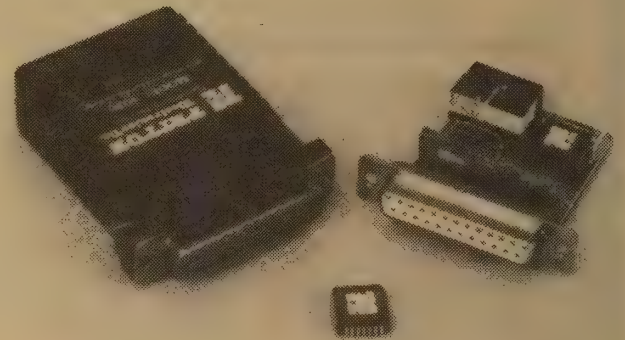
MACRONIX FAX/MODEM FOR TOSHIBA LAPTOP

Micronix has introduced the MaxFax 962LT-T, an integrated fax/modem for the Toshiba family of laptop and notebook computers. It fits into the small, internal T.24D modem slot on the T1000SE, T1000XE, T1200XE, T1200, T1600, T3100SX and T3200SX models. MaxFax features an auto direct function that determines whether an incoming call is for the fax or modem and processes the call accordingly. MaxFax also operates in the background, allowing other work to be performed. It supports dot matrix and laser printers and allows direct faxing from scanner input. (\$599) Micronix, Inc., 1348 Ridder Park Dr., San Jose, CA 95131. (408)453-8088, Fax (408)453-8488.

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The smallest synchronous point-to-point short range modem has been introduced by Patton Electronics.

Employing Patton's custom VLSI chip and built using surface mount techniques, the Model 1020 measures 2.66" long, 2.10" wide, and only 0.73" thick. It is powered by data only, and operates at speeds of 1.2 to 19.2Kbps. The Model 1020 transformer is isolated for protection against ground loops. It operates half duplex or full duplex, and has its own internal clock. For applications requiring external clocking, the Model 1025 is available. It has all the feature of the Model 1020, plus selectable internal or external clocking. (Model 1020, \$175; Model 1025, \$195) Patton Electronics Co., 7958 Cessna Ave., Gaithersburgh, MD 20879. (301)975-1000.

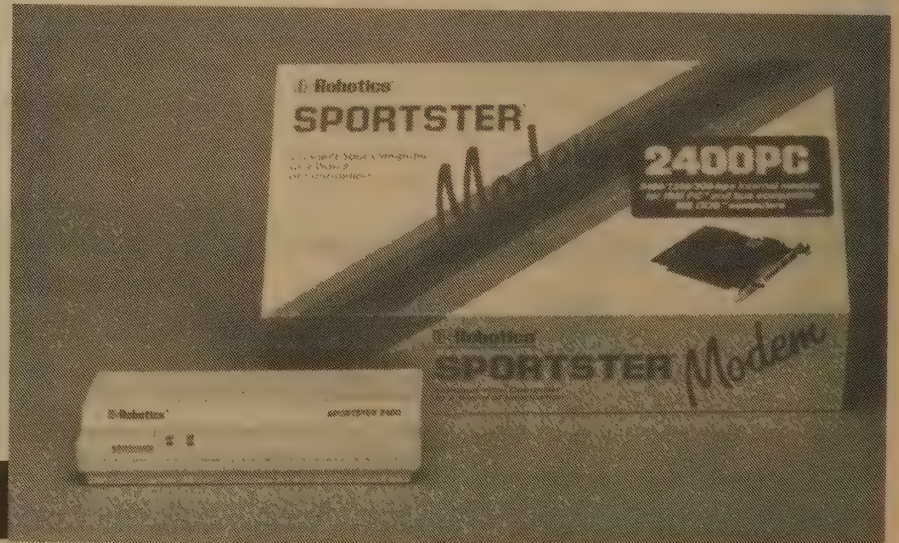


THREE BOARDS IN ONE

Intel PCEO's SatisFAXtion board combines a 6900bps fax modem, 2400 MNP (Microcom Networking Protocol) 5 data modem and grayscale scanner port in a single slot. SatisFAXtion WYPIWYF pop-up menu lets users fax as easily as printing, without leaving their primary application. To send a fax, the user selects the fax printer and the pop-up menu appears. This board uses a 16MHz 80186 processor to fax in the background. In addition, SatisFAXtion supports the Intel/DCA Communicating Applications Specifications, enabling developers to incorporate custom fax capabilities into their applications. The board is hardware ready for integration into OS/2 environments. (\$499 for classic-bus PCs and \$549 for MCA computers) Intel Corp., Personal Computer Enhancement Operation, CO3-7, 5200 N.E. Elam Young Pkwy., Hillsboro, OR 97124. 1-800-538-3373.

ENTRY MNP PRODUCTS FROM US ROBOTICS

The Sportster 2400MNP/internal and Sportster 2400MNP/external from US Robotics offer low-cost modems with MNP levels of 1-5 error control and data compression. (US Robotics also includes the Communications by Crosstalk software package with all Sportster internal models.) Sportster models accept industry standard AT commands, assuring compatibility with all popular data communications software. The external model can also be connected to any personal computer or data terminal with an RS232C serial interface. Other features include LED status indicators, automatic speed matching, call-progress reporting, compact size, on-modem summary manual and NRAM. NRAM, or nonvolatile RAM, is electronic memory that does not lose its data on loss of power. (Prices range from \$139 to \$299) US Robotics, Inc., 8100 N. McCormick Blvd., Skokie, IL 60076. 1-800-DIALUSR.





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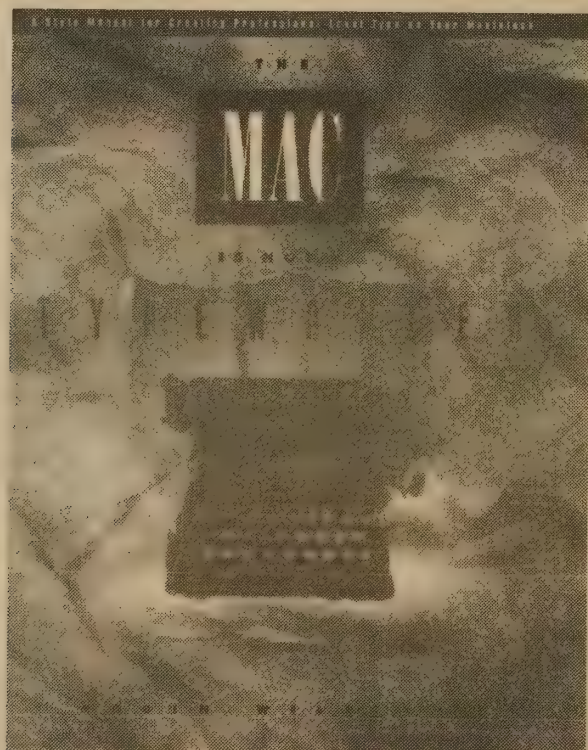
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The Power of Color in Design, by Vern Groff, is an illustrated guide to desktop publishing and designing in color. Written for users of all types of hardware and software, Groff helps desktop publishers make improvements in the appearance and quality of their work. Loaded with full-color examples, the book explains how to use color for emotional impact, how to handle typefaces and letterforms with the finesse of a professional, and how to give designs continuity by using a design grid system. *The Power of Color* discusses how to link desktop publishing technology with traditional color printing methods. (\$24.95) MIS:Press, Inc., 524 N. Tillamook, Portland, OR 97227. (503)282-5215.

Books

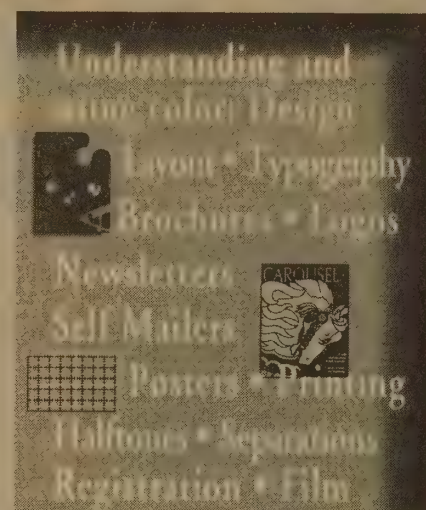


WRITING ON A MAC WITH STYLE

The Mac Is Not a Typewriter, A Style Manual for Creating Professional-Level Type on Your Macintosh is short and to the point.

This 72-page book provides twenty lessons that together make up a quick course in typography for everyone, not just Macintosh users. The chapters discuss such topics as dashes, special characters, accent marks, kerning, windows & orphans, and serifs and sans serif fonts. The final chapter offers a quiz and the appendix presents a checklist of rules. (\$9.95) *The Mac Is Not a Typewriter*, Robin Williams, Peachpit Press, 1085 Keith Ave., Berkeley CA, 94708. 1-800-283-8555.

THE POWER OF COLOR IN DESIGN FOR DESKTOP PUBLISHING



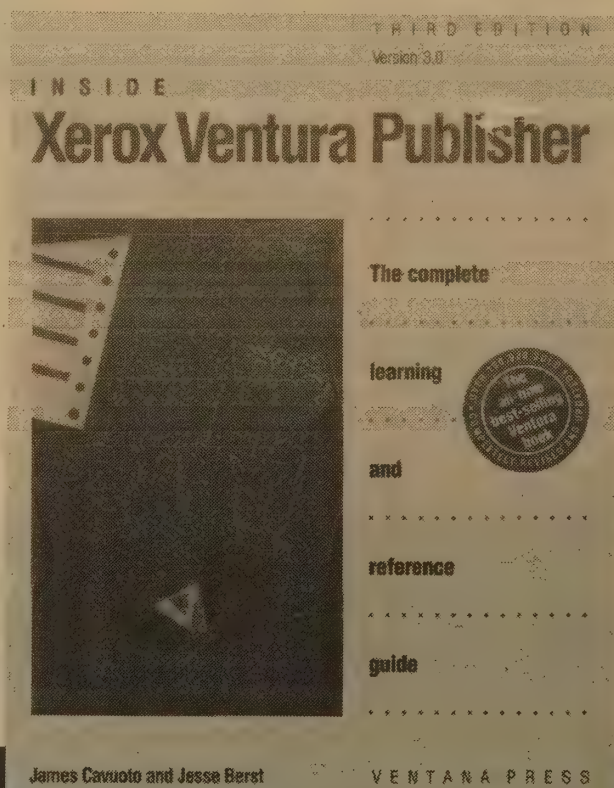
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INSIDE XEROX VENTURA PUBLISHER

Ventana Press has published a third edition of its best-selling Ventura book *Inside Xerox Ventura Publisher: The Complete Learning and*

Reference Guide. This book provides a guided tour through the many features and functions that make Ventura one of the most popular desktop publishing programs. In addition to this step by step tour the authors also discuss the benefits and shortcomings of desktop publishing and compare Ventura Publisher to other PC desktop publisher programs. (\$24.95) *Inside Xerox Ventura Publisher*, James Cavuoto and Jesse Berst, Ventana Press, Inc., PO Box 2468, Chapel Hill, NC 27515. (916)942-0220.



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Intel Cache

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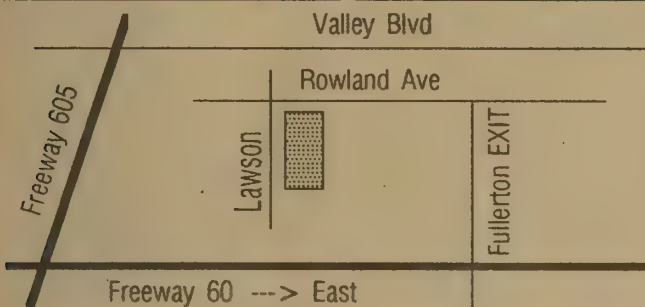
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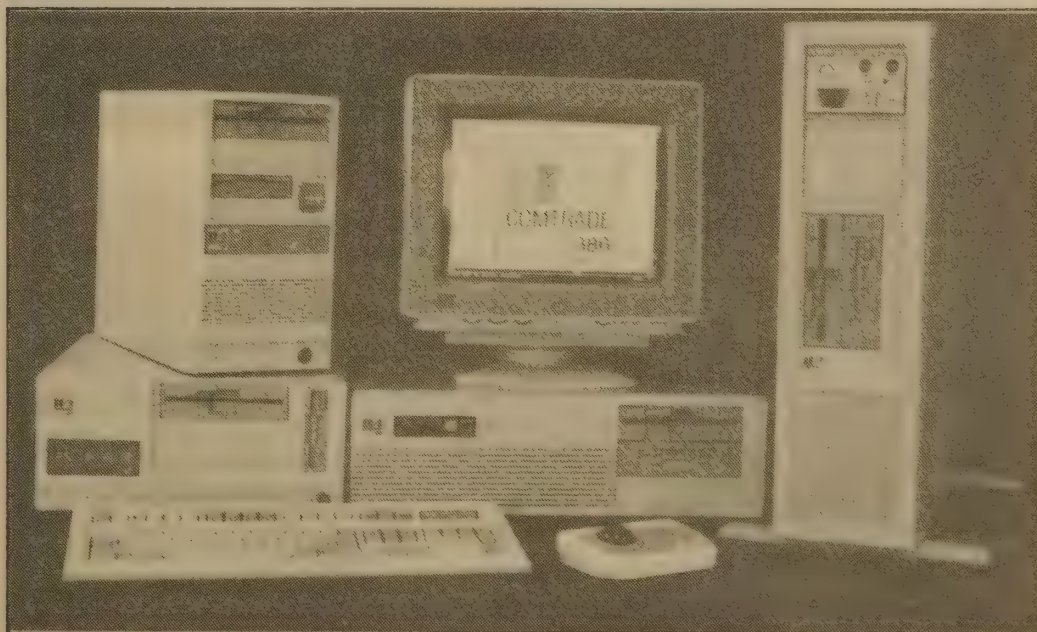
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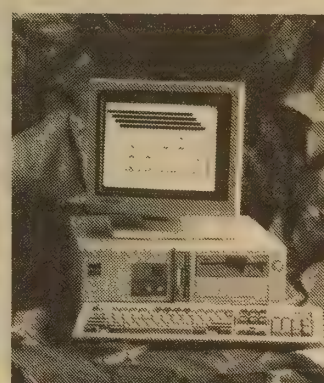
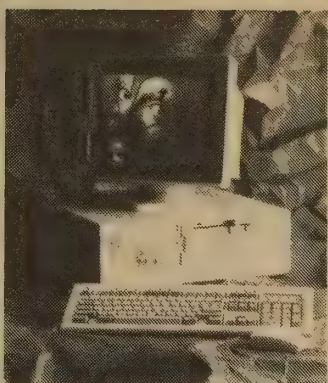
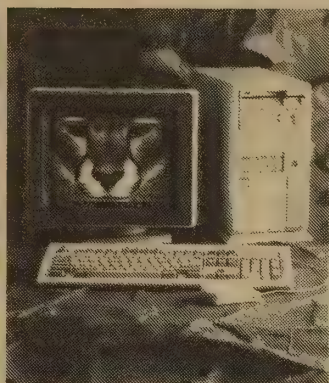
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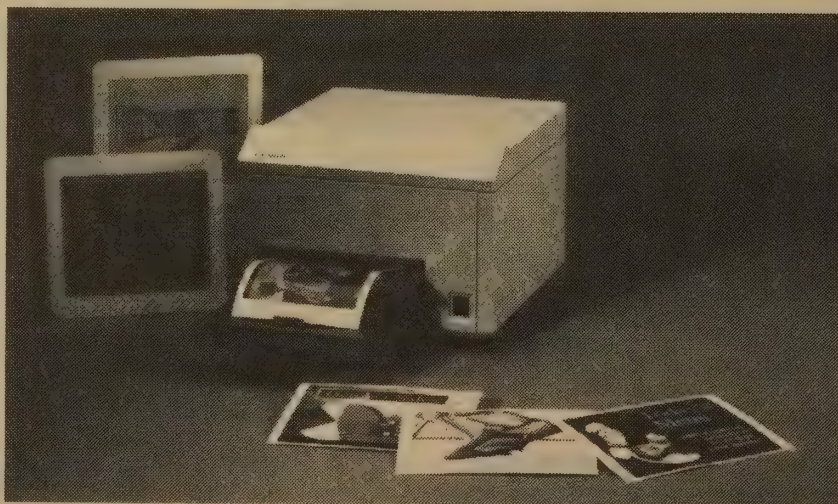
The Q-Script laser printer controller, from Bell & Howell Quintar, combines full PostScript-language compatibility and high-speed background mode operation, and is the first to allow printing while concurrently process-

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ing PostScript-language files. Q-Script converts HP, Canon, Brother, Toshiba and Ricoh laser printers into PostScript-language devices. It performs high-speed PostScript-language processing in background mode, transparently emulates native printer operation while accelerating performance, and offers software upgrades for easy product migration in the future. Q-Script consists of a PC add-in controller board, printer board, video cable, software, and typefaces. Q-Script uses the PhoenixPage PostScript-compatible interpreter, which, unlike most non-Adobe PostScript-language products, is fully compatible with standard PostScript PDL version 7. (\$1995) Bell & Howell Quintar Co., 370 Amapola Ave., Suite 106, Torrance, CA 90501. (213)320-5700.





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DTK BAREBONES

486-25MHz 64K Cache . \$2695
386-33MHz 64K Cache . \$1325
386-25MHz 64K Cache . \$1075
386-25MHz\$755
386SX-20MHz\$595
386SX-16MHz\$495
286-12MHz\$225

TEAC DRIVES

360K 5-1/4"\$58
1.2M 5-1/4"\$65
720K 3-1/2"\$65
1.44M 3-1/2"\$65

PANASONIC PRINTERS

KX-1180\$160
KX-1124\$285
KX-1624\$365
KX-6620 Laser\$895

VIDEO CARDS

MGP Card\$20
CGP Card\$25
EGA Card\$65
VGA (800x600)\$75
VGA (1024x768)\$95
VGA w/1MB Ram\$185

FAX/MODEM

Smartone"
2400 Int. (OEM)\$60
2400 Int.\$65
2400 Ext.\$95
9624 Fax/Modem\$199

HARD DRIVES

20 MB MFM\$185
30 MB RLL\$195
40 MB MFM\$235
40 MB IDE\$235
65 MB RLL\$275
80 MB and up Call

FD/HD Controllers

MFM (1:1) 2FD/2HD\$65
RLL (1:1) 2FD/2HD\$85
ESDI (1:1) 2FD/2HD\$165
IDE (1:1) 2FD/2HD\$25
IDE With I/O\$55

★ ON-SITE SERVICE IS AVAILABLE WITH CONTRACT ★

★ Installation charge for Hard drives & Add-on cards are extra.

(818) 309-9986

4124 Rosemead Blvd.
Rosemead, CA 91770



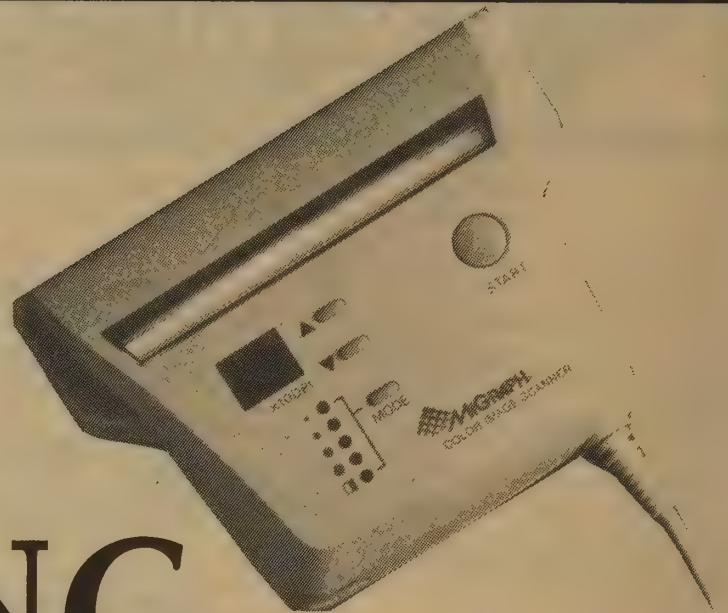
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NEW PRODUCT BUYERS GUIDE

MIGRAPH COLOR HAND SCANNER

The Migraph Color Hand Scanner captures up to 400dpi with an array of 4096 colors offering every user professional-quality color graphics quickly and easily. This scanner provides the four features desired by desktop users: power, speed, ease of use, and affordability. It can scan line art, grayscales and color images. While scanning, the users can quickly check dpi settings on an easy-to-read LED display, and every scan can be

fine-tuned by adjusting controls for brightness, contrast, hue, and gamma correction of colors. (\$795) Migraph, Inc., 200 S. 333rd St., Suite 220, Federal Way, WA 98003. 1-800-223-3729.



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TEL: (714) 641-9674

Mon. - Fri.: 10 - 6, Sat.: 11 - 4
2634 S. Harbor Blvd.
Santa Ana, CA 92704

FAX: (714) 641-9642

286-12MHz 40MB HARD DISK

- 80286 12MHz & AMI BIOS
- 1MB (80ns) Exp. To 4MB
- Socket For 287 Only
- Dual FD & HD Cont. (1:1)
- 1.2 & 1.44MB Floppy
- 40MB Hard Disk (28ms)
- AT I/O 2S, 1P, 1G Ports
- Enhanced 101 Keyboard
- Mini Tower & 200W PS
- VGA Monitor & Card

\$1100

386SX-16MHz 65MB HARD DISK

- 80386 16MHz & AMI BIOS
- 1MB (80ns) Exp. To 4MB
- Socket For 387SX Only
- Dual FD & HD Cont. (1:1)
- 1.2 & 1.44MB Floppy
- 65MB Hard Disk (24ms)
- AT I/O 2S, 1P, 1G Ports
- Enhanced 101 Keyboard
- Mini Tower & 200W PS
- SP-VGA Monitor & Card

\$1499

386DX-25MHz 65MB HARD DISK

- 80386 25MHz & AMI BIOS
- 1MB (80ns) Exp. To 8MB
- Socket For 387 & 3167
- Dual FD & HD Cont. (1:1)
- 1.2 & 1.44MB Floppy
- 65MB Hard Disk (24ms)
- AT I/O 2S, 1P, 1G Ports
- Enhanced 101 Keyboard
- Mini Tower & 200W PS
- SP-VGA Monitor & Card

\$1650
64K CACHE ADD
\$299

386-33MHz 64K CACHE 65MB HARD DISK

- 80386 33MHz & AMI BIOS
- 1MB (80ns) Exp. To 8MB
- Socket For 387 & 3167
- 64K Cache Hi Speed SRAM
- Dual FD & HD Cont. (1:1)
- 1.2 & 1.44MB Floppy
- 65MB Hard Disk (24ms)
- AT I/O 2S, 1P, 1G Ports
- Enhanced 101 Keyboard
- Full Tower & 230W PS
- SP-VGA Monitor & Card

\$1950

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AND
TOP SERVICE**

486-25MHz 128K CACHE 100MB HARD DISK

- 80486 25MHz & AMI BIOS
- Built-in 487 & 8K SRAM Cache
- Secondary 128K Memory On-Board (External)
- 4MB (80ns) Exp. To 16MB
- Socket For 4167 Only
- Dual FD & HD Controller (1:1)
- 100MB Hard Disk (19ms IDE)
- 1.2 & 1.44MB Floppy Drives
- AT I/O 2S, 1P, 1G Ports
- Enhanced 101 Keyboard
- Full Tower Case
- 230W Power Supply
- SP-VGA Monitor & Card

\$3299

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\$55 Per Meg

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- NEC 3D (14" Multisync)...+\$350
- Sony 1304 (14" Trinitron)...+\$380
- Seiko CM1440 (14" Trinitron) Interlace...+\$350
- Seiko CM1450 (14" Trinitron) Non-Interlace...+\$380

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OR

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- (1024x768 256 Color Non-Interlace) Nanao 9070U (16" .28 DOT)...+\$780
- Nanao 9070S (16" .31 DOT)...+\$680
- Nanao 9400 (20" .31 DOT)...+\$2255
- Seiko CM 2050 (20" .31 DOT)...+\$1650

HARD DISK OPTION

- 80MB (18ms IDE)...+220
- 105MB (18ms IDE)...+250
- 150MB (18ms ESDI)...+550
- 210MB (17ms IDE)...+550
- 330MB (16ms ESDI)...+1300

PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE...MAJOR CREDIT CARDS ACCEPTED (ADD 3%)



DIGITCOMP

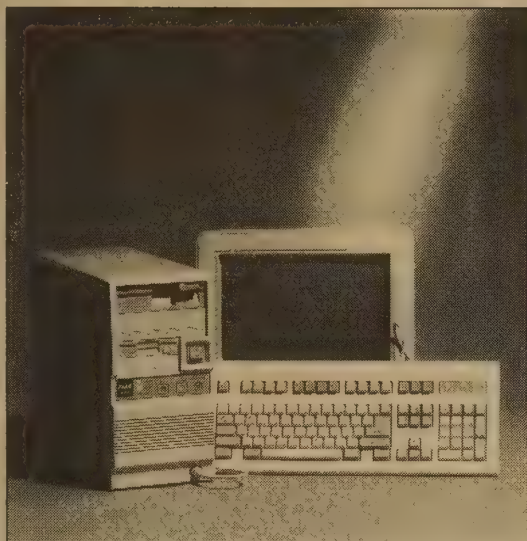
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Computer Systems & Networking Solutions



*Optional VGA Monitor & 1.44 MB Floppy Pictured

PMC 286-12

- ☐ Intel 80286 12Mhz CPU
- ☐ 512K RAM
- ☐ Zero Wait State
- ☐ 1.2 MB Floppy Drive (TEAC)
- ☐ One Serial And Parallel Port
- ☐ IDE Hard/Floppy Controller
- ☐ Co-Processor Socket
- ☐ 101 Key Enhanced Keyboard
- ☐ New Mini Tower Case

\$360

PMC 386-SX

- ☐ Intel 386SX 16Mhz CPU
- ☐ Full 1 MEG RAM
- ☐ Zero Wait State
- ☐ 1.2 MB Floppy Drive (TEAC)
- ☐ One Serial and Parallel Port
- ☐ IDE Hard/Floppy Controller
- ☐ Co-Processor Socket
- ☐ 101 Key Enhanced Keyboard
- ☐ New Mini Tower Case

\$695

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PMC 386-25

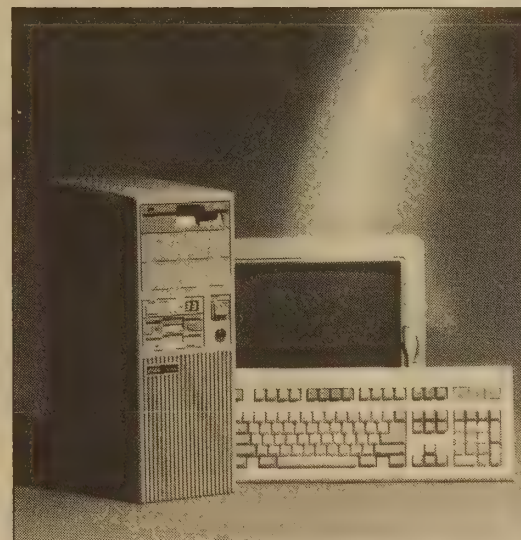
- ☐ Intel 80386 25Mhz CPU
- ☐ Full 1 MEG RAM
- ☐ Zero Wait State
- ☐ 1.2 MB Floppy Drive
- ☐ One Serial and Parallel Port
- ☐ IDE Hard/Floppy Controller
- ☐ Co-Processor Socket
- ☐ 101 Key Enhanced Keyboard
- ☐ New Mid-Tower Case

\$895

PMC 386-33

- ☐ Intel 80386 33Mhz CPU w/64K Cache
- ☐ Full 1 MEG RAM
- ☐ Zero Wait State
- ☐ 1.2 MB Floppy Drive
- ☐ One Serial and Parallel Port
- ☐ IDE Hard/Floppy Controller
- ☐ Co-Processor Socket
- ☐ 101 Key Enhanced Keyboard
- ☐ New Mid-Tower Case

\$1,290



*Optional VGA Monitor & 1.44 MB Floppy Pictured

UPGRADE MATRIX

"Add to Above System Prices"

	NONE	MONO	VGA	SVGA
NONE	STANDARD	\$95	\$395	\$520
40 MEG	\$255	\$350	\$650	\$870
65 MEG	\$370	\$465	\$765	\$985
80 MEG	\$510	\$605	\$905	\$1,125
100 MEG	\$560	\$655	\$955	\$1,175
120 MEG	\$575	\$670	\$970	\$1,190
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CODA MUSICPROSE

Coda Music Software has released a major upgrade for its Musicprose music notation software that will feature an expansion to thirty-two staves, a utility for extraction of parts into separate files for layout and printing, an enhanced undo/redo function and a scrolling playback option that allows the user to see notated music as it plays. Version 2.0 will include Apple Computer's MIDI Manager application, a software toolkit that lets the user link MIDI programs together. Music prose allows the user to transcribe standard MIDI files into notation, write MIDI files from Musicprose for use with sequencing programs, quickly change key, meter and clef, and analyze block chords for accurate chord symbol labeling. (\$399) Coda Music Software, 1401 E. 79th St., Bloomington, MN 55425. (612)854-1288.

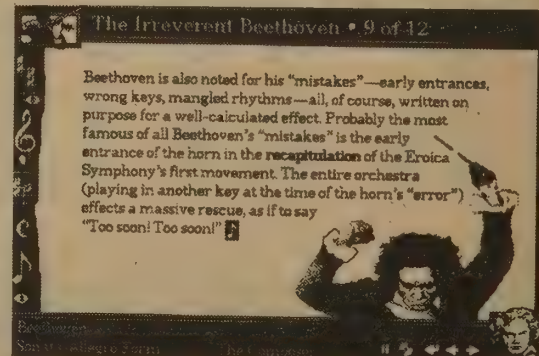
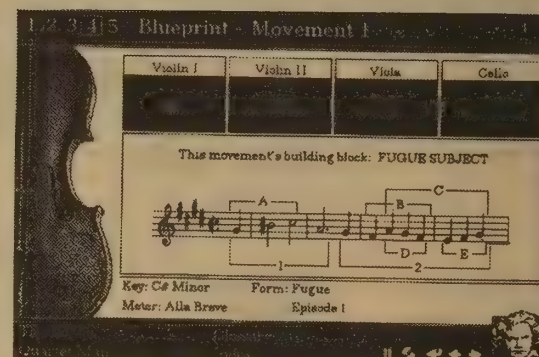
MULTIMEDIA

AUTODESK ANIMATION FOR THE PC

Autodesk, Inc., has entered the desktop video market with a new animation and paint program for PC users. Autodesk Animator provides PC users with a tool for developing animated presentations for sales, marketing, training and industrial video applications. Autodesk Animator features include: five types of professional animation techniques, image processing, 572 true-color paint effects, an intuitive mouse interface and hardware connection to video-in/video-out capability, and others. It also includes a videotape of sample animations and a public domain projector/player software utility that allows users to distribute presentations. (\$395) Autodesk, Inc., 2320 Marinship Way, Sausalito, CA 94965. 1-800-525-2763.

BEETHOVEN LIVES IN ROM

The String Quartet, a new CD-ROM musical presentation package, combines entertainment, education and music appreciation in a richly illustrated and annotated user-directed journey through Beethoven's String Quartet No. 14. Using Beethoven's String Quartet No. 14 as a foundation, Warner New Media takes advantage of CD-ROM and HyperCard capabilities to create a comprehensive presentation of the piece and the entire subject of chamber music. Using a Macintosh computer with a CD-ROM drive and speakers, the user can explore the complete quartet, enhanced by thousands of pictures, commentaries, additional music, analysis, historical information, musical glossary and index. (\$66) Warner New Media, 3500 Olive Ave., Burbank, CA 91505. (818)955-6499.



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The OUTSTANDING COMPUTER system packs more speed and power than any computer in its class. It uses the VLSI (Very Large Scale Integration) technology to make it not only one of the fastest, but also one of the most dependable systems ever built. You get sizzling speed enhanced by page mode memory architecture—boots performance to a zero-wait state.

Network Ready

Each system features an industry exclusive "network ready" ROM BIOS. The OUTSTANDING COMPUTER systems come prepared for the multitasking and multiuser operations in virtually any environment including MS-DOS, PC-DOS, OS/2, UNIX, Novell, PICK, or PC-MOS.

Fast Speed Intelligent Hard Disk

Take advantage of the latest that technology has to offer with Integrated Drive Electronics (IDE). By

integrating the drive controller onto the hard drive itself, IDE hard drives speed up system performance and increase reliability.

Compatibility Built-in

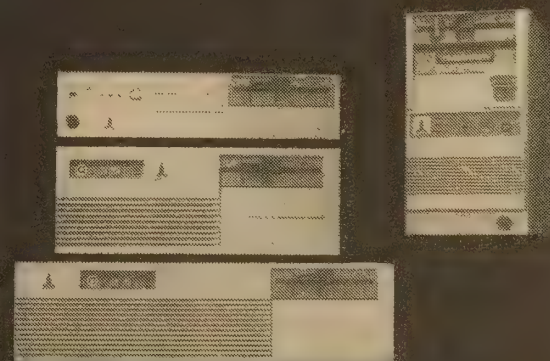
The OUTSTANDING COMPUTER systems are designed to be fully compatible with IBM standard. All systems are constructed using the latest techniques and high-reliability components. OUTSTANDING COMPUTER ensures compatibility by continually testing software packages and hardware options for all the systems.

Complete Product Support

OUTSTANDING COMPUTER prides itself in offering the best support available. If you need assistance, our trained technical staff is on duty to assist you. If our standard configurations don't fit your needs, we will custom configure a system just for you. Our sales staff will provide technical expertise to help you specifically design your system.

Choice of Case Styles

- (1) Medium footprint vertical case with six drive bays, five front access
- (2) Slim Line Case with four front access drive bays



All systems come with the following standard features:

- ▶ 1 MB zero wait state memory
- ▶ Multiuser/Multitasking BIOS
- ▶ Real-time clock, calendar with battery backup
- ▶ Keyboard selectable system speed with turbo indicator
- ▶ Enhanced keyboard using Japan ALPS mechanical tactile/click key switch
- ▶ Built-in 1 parallel port, 2 serial ports and 1 game port
- ▶ IDE Floppy/Hard Disk Controller
- ▶ Teac 1.2 MB 5.25" or 1.44 MB 3.5" diskette drive
- ▶ 200-watt power supply (UL, CSA approved)

286/12
\$495

Includes all standard features, plus:
▶ Intel 16-bit 80286 processor running at 12 MHz

- ▶ Expandable to 4 MB memory on-board
- ▶ High quality small footprint case with four drive bays, three front access
- ▶ 80287 math co-processor socket

386/25
\$1145

Includes all standard features, plus:
▶ Intel 32-bit 80386 processor running at 25 MHz

- ▶ Expandable to 8 MB memory on-board
- ▶ 384K BIOS Shadow Ram
- ▶ Heavy duty 5 bay AT case, three front access
- ▶ 80387 math co-processor socket

386/SX
\$745

Includes all standard features, plus:
▶ Intel 32-bit 80386SX processor running at 16 MHz

- ▶ Expandable to 8 MB memory on-board
- ▶ 384K BIOS Shadow Ram
- ▶ High quality small footprint case with four drive bays, three front access
- ▶ 80387SX math co-processor socket

386/33
\$1745

Includes all standard features, plus:
▶ Intel 32-bit 80386 processor running at 33 MHz

- ▶ Expandable to 16 MB
- ▶ 384K BIOS shadow Ram
- ▶ Heavy duty 5 bay AT case, three front access
- ▶ 32K Cache memory
- ▶ 80387 math co-processor socket

MONITOR AND HARD DRIVE OPTION

	SAMSUNG AMBER 720x350	SAMSUNG VGA 640x480	SAMSUNG Super-VGA 1024x768
CONNER 40MB	\$440	\$815	\$915
CONNER 100MB	\$700	\$1075	\$1175
CONNER 200MB	\$1090	\$1465	\$1565

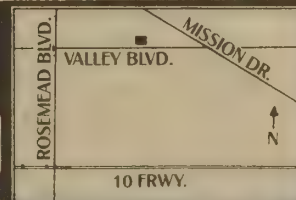


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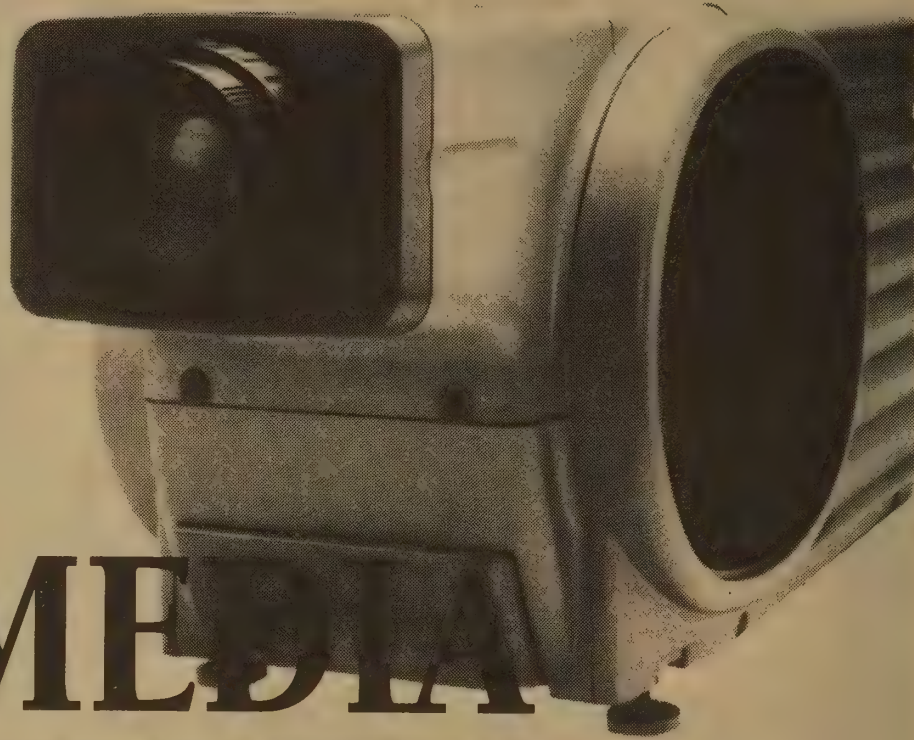


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SHARP PROJECTS YOUR BEST IMAGE

Sharp Electronics Corp. has introduced a portable solid-state LCD color video projection system, the XG-100, designed for business and educational presentations. The XG-100 accepts both standard composite and S-VHS video sources, including personal computers. When used with an RGB-to-Video computer interface or graphics card, the XG-100 can be used on an IBM PC or MAC II to project full-color multimedia computer/video graphics. Sharp has worked closely with multimedia vendors to support a wide variety of hardware and software applications, including Autodesk Animator. Sharp

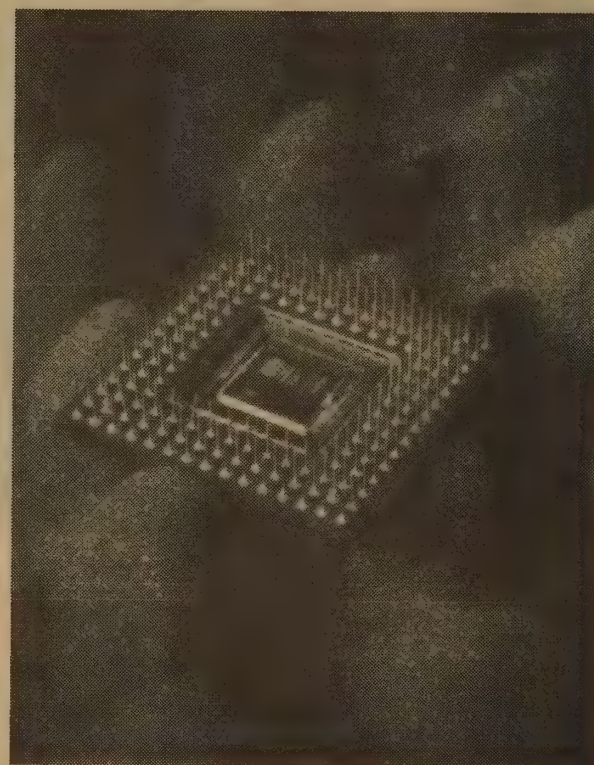
Electronics Corp., Professional Products
Division, Sharp Plaza, Mahwah,
NJ 07430. (201)529-8731.



MULTIMEDIA

MUSIC AND THE MEDIA

Digidesign presents a complete audio production system for the Macintosh computer. Whether you're a musician or multimedia producer, these tools will let you produce, record, edit and play back professional quality audio directly from your Mac. The system starts with the Audiomedia digital recording and editing system. Comprised of a Mac II NuBus card and Audiomedia software, it allows you to record CD-quality stereo sound directly to your hard disk and then play back at 16-bit fidelity. The Audiomedia card leaves Macintosh CPU free to run animation and other graphics. Digidesign's DECK product expands Audiomedia into a four track digital recording system. DECK has unlimited overdubbing and track bouncing, digital effects, automated mixing, and MIDI playback. An additional component of the Digidesign audio system is Clip Tunes, a CD-ROM full of production music and sound effects ready to play with an Audiomedia system. Digidesign, Inc., 1360 Willow Rd., Suite 101, Menlo Park, CA 94025. (415)688-0600.



WEITEK COPROCESSORS FOR AUTODESK 3D STUDIO

Autodesk 3D Studio runs twice as fast with Weitek's 3167 and 4167 math coprocessors than it does with other coprocessor alternatives. The Weitek 3167 and 4167 enable the 3D Studio graphics operations to approach real time by doubling the speed of the large number of math calculations that high-quality 3D rendering applications require. Weitek Corp., 1060 E. Arques Ave., Sunnyvale, CA 94086. (408)728-8400.

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DISK AND MONITOR**

286-12 \$785

286-16 \$849

286-20 \$949

386-16SX \$1089

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386-25 \$1339

386-25 w/64K Cache \$1459

386-33 w/64K Cache \$1589

486-25 w/Cache \$2689

486/386/286 SYSTEMS INCLUDE

- Motherboard & CPU
- 1 MB Memory Installed
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- 8 Port, Active Hub, Coaxial+ Twisted Pair

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- 8 Bit, NE-1000, Compatible
- 8 Bit, WD Ethernet
- 16 Bit, NE-2000, Compatible
- Cables & Accessories

VIDEO CARDS

Mono Graphics w/P	\$25	VGA(800 x 600)	69
Color Graphics w/P	35	VGA (1024 x 678) 256K	94
EGA	72		

PRINTERS

Panasonic KX-1180	\$160	Panasonic KX-1624	359
Panasonic KX-1124	295	Panasonic KX-4420 Laser	895

MONITORS

12" Mono	\$72	Super VGA (.28, 1024 x 768)	365
14" Mono	98	NEC 3D	595
VGA	305		

HARD DRIVES

Specials with system purchase		150 MB/18ms w/ESDI Card	add 655
65 MB/28ms w/RLL Card	add \$120	200 MB/18ms	add 625
107 MB/18ms	add 285	320 MB/18ms w/ESDI Card	add 1245
120 MB/18ms	add 345	670 MB/16ms w/ESDI Card	add 1675

MISC

I/O (2S/1P/1G)	\$25	60 MB Tape Back-Up Drive	285
2400 Baud Int. Modem	74	Tower Case	180
2400 Baud External Modem	85	Medium Tower Case	145
2400 Baud Pocket Modem	125	Mini Tower Case	110
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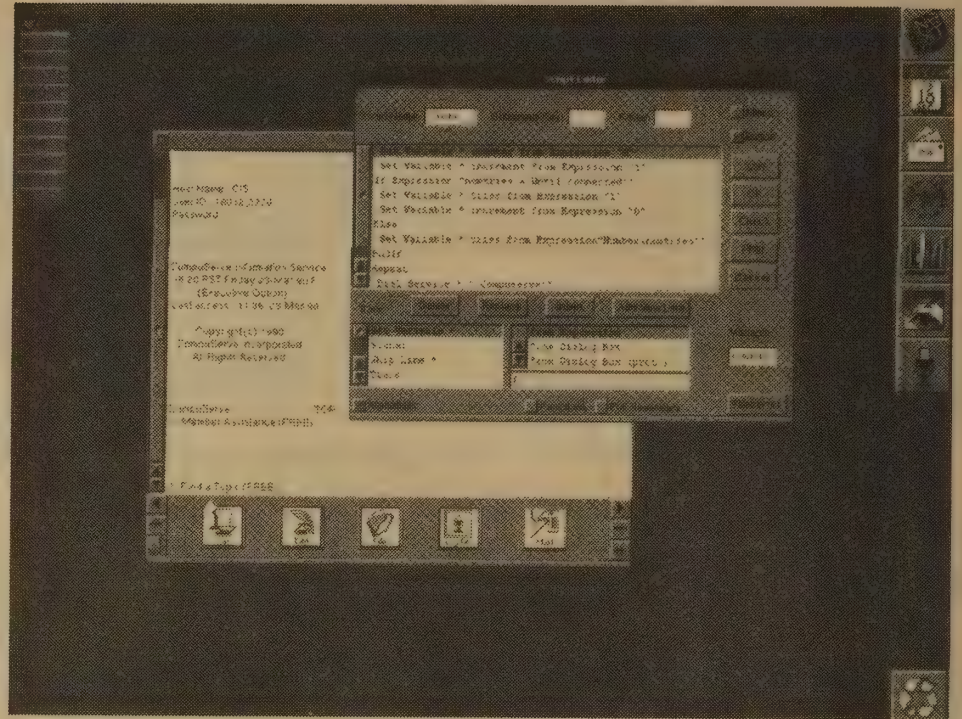
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NEW PRODUCT BUYERS GUIDE

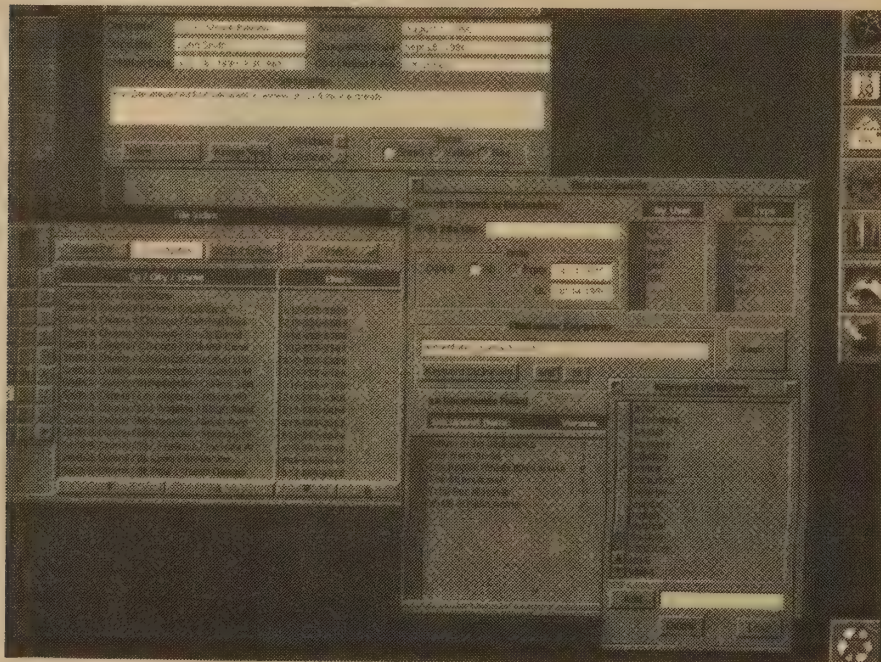
MICROPHONE II, ALSO

Microphone II is a breakthrough telecommunications product designed specifically for microcomputers that use a graphical interface. Microphone II is a powerful communications protocol script engine for automating all your communications activity. For example, a click on your electronic mail icon instructs the program to access your remote mail service and then automatically transfer mail while you tend to other business. This program offers two innovative tools to utilize its scripting capabilities. First, without learning a single script command, you can activate Watch ME, an automatic script recorder, to record your communications actions for later replay. Second, the program's script editor lets you choose commands to create a script, eliminating typing errors. Software Ventures Corp., 2907 Claremont Ave., Suite 220, Berkeley, CA 94705. (415)644-3232.



NEXT

SOFTWARE & PERIPHERALS



DOCUMENT MANAGEMENT BY AND FOR THE BOSS

The BDMS—Boss Document Management System—is a workflow and multimedia system based on Sybase's SQL RDBMS and used as the centerpiece in the NeXT Electronic Document Management System. The BDMS addresses five major problems: what is going on, storage and retrieval, revision and configuration control, and notification. Based on a library concept, users can consult the equivalent of a card catalog to find documents by author, subject, or title; they can also create a custom search using a keyword index. (Demos available) Boss Logic, Inc., 406 W. Depot Ave., Fairfield, IA 52556. (515)472-7740, Email: uunet!bosslog!phil.

PUBLICLY AVAILABLE NeXT Software

The First Compilation Disk is a collection of the most popular software publicly available for NeXT computers. Uncompressed, this disk contains about 400Mb of software, including a diverse selection of utilities, programming languages, games, and information files. It also includes one year of NeXT-specific Usenet network news, and for the experienced user, hundreds of old-fashioned UNIX programs. All the software on the disk is freely copyable—the price covers media and handling fees. This collection is updated continuously. (\$125) Lighthouse Design, Ltd., 6516 Western Ave., Chevy Chase, MD 20815. 1-800-366-2279.



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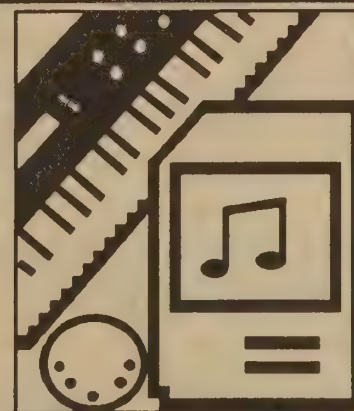
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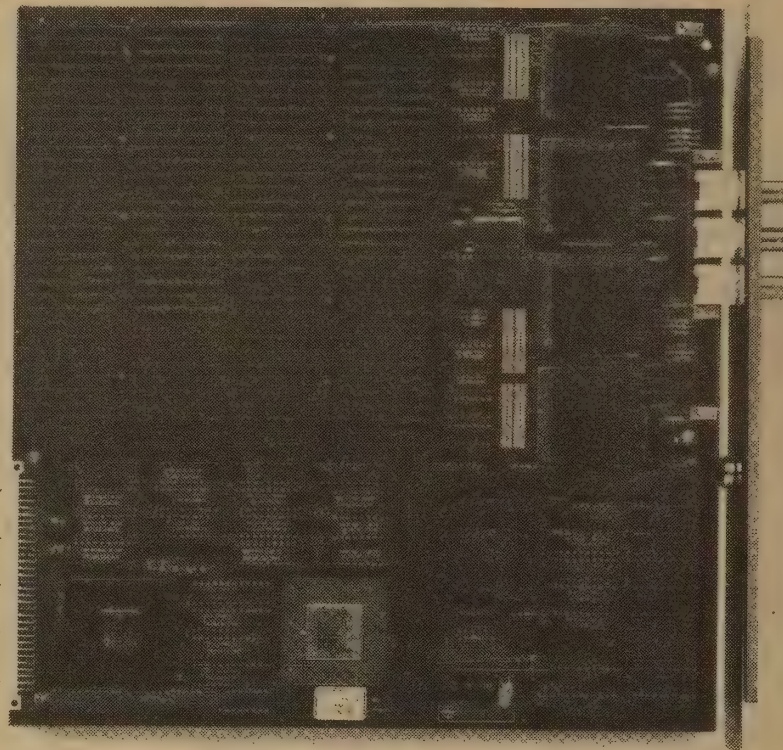
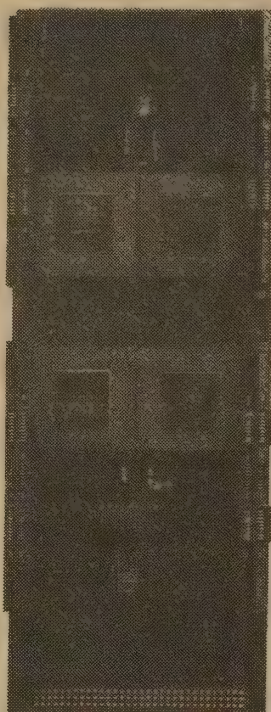


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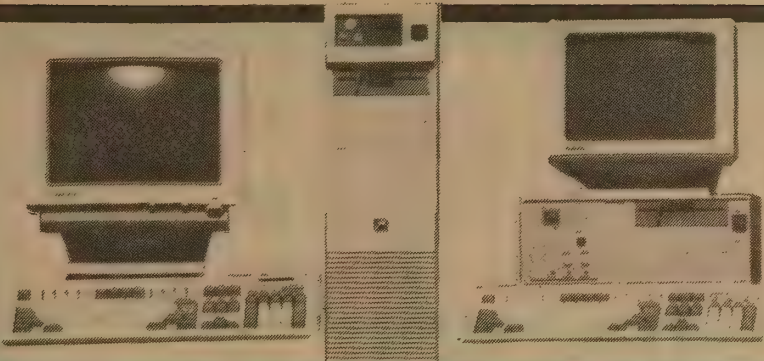
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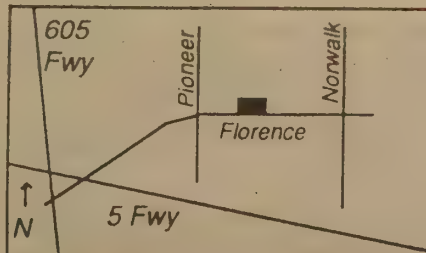
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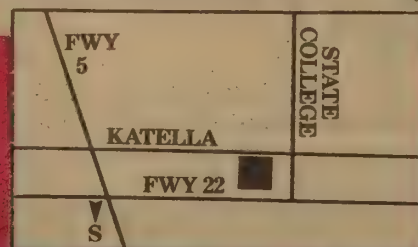
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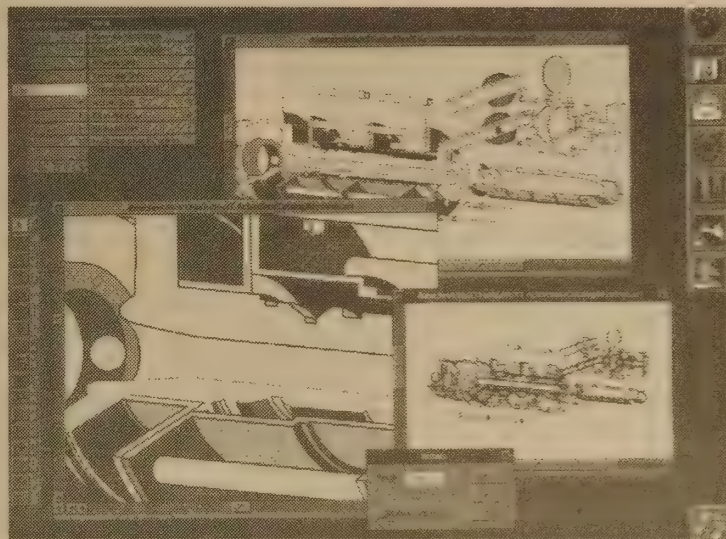
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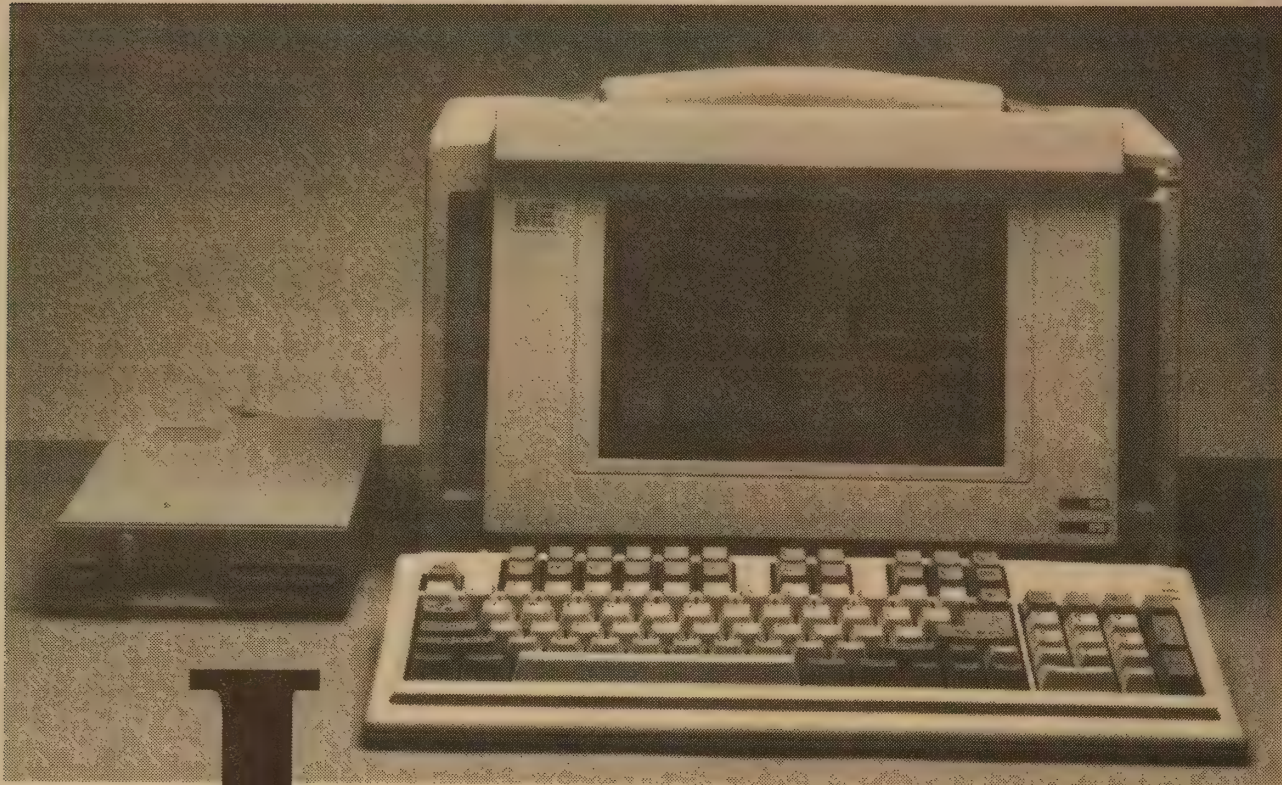
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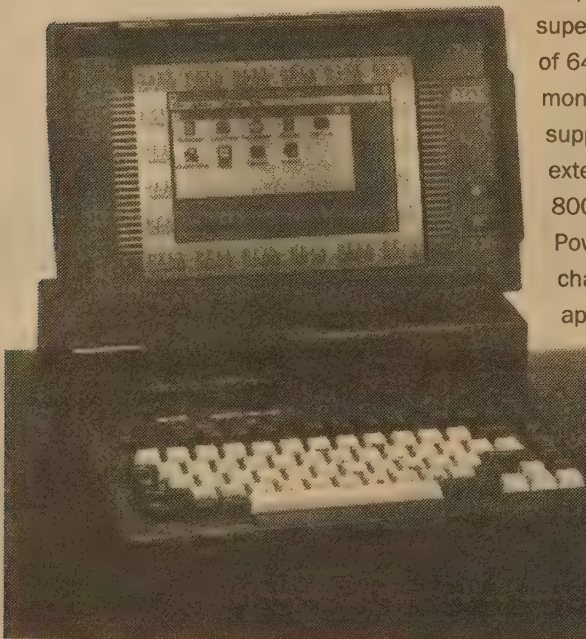
PORTABLES

INTERNOTE ON THE GO

The Ogivar Technologies Internote 286 is a lightweight notebook computer featuring a VGA-compatible LCD display, a full-sized keyboard and a 20Mb hard disk drive. Other features include 1Mb RAM expandable to 5Mb, a 12.5MHz operating speed, high-density 10" display with 640 x 480 resolution and a VGA video adaptor to convert colors into thirty-two shades of gray. (\$2999) Ogivar Technologies, Inc., 810 Fort St., Suite 310, Victoria, BC, Canada V8W 3A9. (604)389-0688.

DELL-LITE LAPTOP

Broadening its laptop product line, Dell Computer introduced the System 320LT, a 20MHz 386SX portable. The 320LT supports MS-DOS, OS/2 and UNIX operating systems and has the power to run sophisticated software such as desktop publishing, spreadsheets and CAD/CAE. The adjustable and detachable supertwist VGA display supports resolution of 640 x 480, while the external VGA monochrome and color VGA displays supported by the 320LT support an external Super VGA color monitor with 800 x 600 resolution. Dell's Continuous Power Battery Pack allows the user to change batteries in the middle of an application without turning off the



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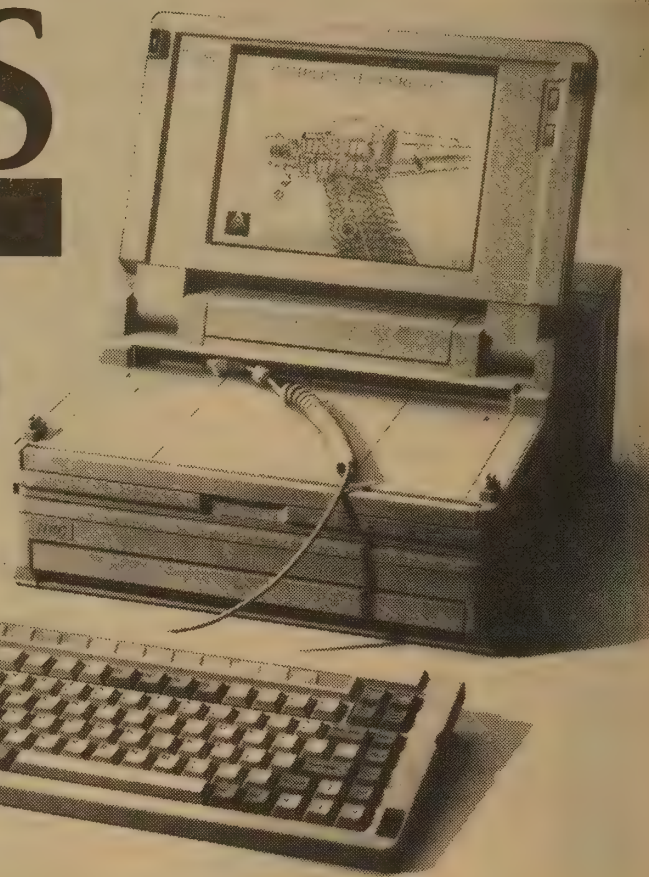
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386 SX

LAPTOP COMPUTER

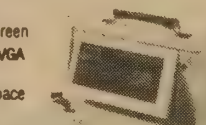
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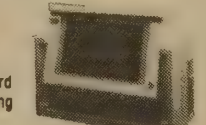
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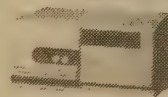
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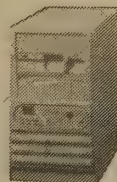
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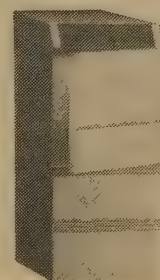


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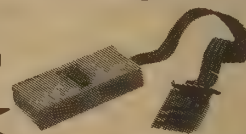
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8748, 48H, 49H, 41A, 42H, 41AH, 42AH, 48AH, 49AH MPU
8751: 8751/H, 52/H, 44/H, 518H, 528H, C51, C252, PAL,
EPLD, GAL, CMOS PAL: MMI, NS, TI, AMD, Cypress, Lattice,
16R8, 20V8, 20L10, 22G10, 16V8, 20V8.
IC Tester: 74xx, 40xx, 45xx, DRAM

EPROM PROGRAMMERS

High speed 8M EPROM Programmer HEP-808	\$325
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8748/49 ProgrammerUPW-481	155
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Teac 3 1/2" 1.44 Meg	79
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Toshiba MK234 106 MB IDE	525
W.D. 93044 40 MB IDE	289

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20 Meg w/Controller	\$249
Seagate 40 Meg 28ms	285
Floppy Controller	29
XT 1.2 Meg Floppy Controller	54

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Serial Card	34
Multi I/O.	49
MGP DFI w/Color Emulator	49
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EGA Autoswitch	99
Hard Drive Controller XT	\$59
RLL Controller For HD XT	65
Genoa 6300 VGA w/512K.	195

MONITORS

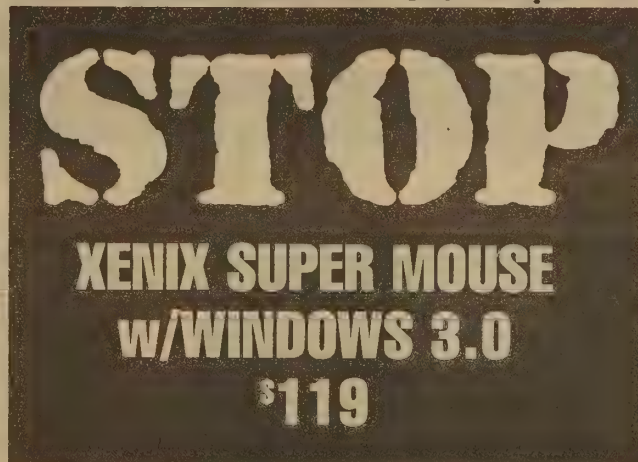
Amber Monochrome	\$85
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Samsung Gray Scale 640x480	155
CTX VGA Multiscan 1024x768	459
Samsung 14" Paper White	119

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For 386 16/20/25/	
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Dexxa Mouse (By Logitech)	35

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Pacific Mac Page (For IIP, IID, III)	399

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LQ2550	919

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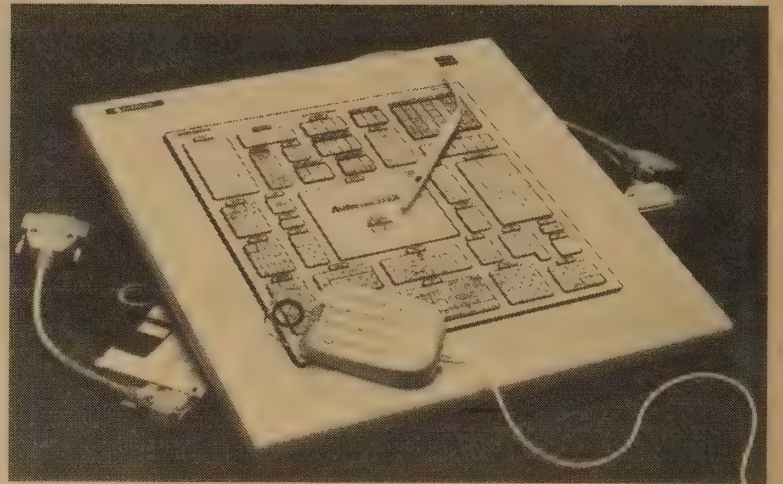
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NEW PRODUCT BUYERS GUIDE

DIGITAL HITACHI

Puma Plus is an advanced low-cost digitizer system that includes a sixteen button cursor option, 100 percent compatibility with AutoCAD, Windows 3.0 and Mouse Emulator. Designed for use in a wide range of digitizing and menu-pointing applications, Puma Plus runs on IBM PC, XT, AT, PS/2 and compatibles as well as workstations like the Sun SPARCStation and Digital's DecStation. The digitizer system consists of a tablet with a resolution of 1016 lines per inch, a choice of four pointing devices—a stylus pen, and 4-, 12- and 16-button cursors, a power adapter, interface cables and utility software. (\$549)
Hitachi America, Ltd., 950 Benicia Ave., Sunnyvale, CA 94086. (408)773-8833.



HARDWARE



TOP O' LINE 486 TOWER

Topline Technologies 25MHz standalone tower chassis system can be easily expanded to a multiuser configuration or used as a file server. The Topline 486 includes 8K internal on-chip cache with optional 128K burst mode direct mapped secondary cache. The system board supports use of 256K, 1Mb and 4Mb DRAM for memory configurations up to 64Mb. The base configuration consists of a floor-standing tower that accommodates six half-height drives, one internal full height drive and two exhaust fans. Also included are 4Mb main memory, 200Mb storage, a 1.2Mb 5.25" and 1.44 3.5" floppy drive, EDSI controller with 32K disk cache, 160Mb ESDI HDD and 101-key keyboard. (List price for the base system is \$5395) Topline Technologies, Inc., 330 E. Orangethorpe Ave., Suite C, Placentia, CA 92670. (714)524-6900.

DATA GENERAL ENTERS 486 MARKET

The Data General Dasher/486-25 is a high performance, multi-purpose, IBM PC AT compatible system designed for flexibility. The Dasher 486-25 can be configured as a server or central station. It can accommodate up to five half-height 5.25" drives, allowing the user to combine multiple hard disks for fault-redundant Novell networking with tape back-ups and online storage of 1Gb. Data General uses a highly reliable Surface-Mount Technology (SMT) CPU board and offers 32-bit memory expansions for separations such as UNIX. This system provides eight expansion slots and includes a dual-floppy disk controller, 16-bit VGA controller card, and two RS-232C serial ports. (\$7995) Data General Corp., 3400 Computer Dr., Westboro, MA 01580. (508)898-4051.



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- 12 MHZ VLSI Board
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- 101 Keyboard
- Mono Graphic Card
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- 386 Sx-16 M/Board
- 1 MB (Expandable to 8 MB)
- Small Foot Print
w/200 W.P. Supply
- 1.2 Teac Drive

- 40 MB Hard Drive
- 1:1 Control Card
- 2 Serial, 1 Par., Game
- 101 Keyboard
- Mono Graphic Card
- 14" Monitor Amber

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386-25^{MHZ}

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COMPLETE

- 386 -25 MHZ M/Board
- 1 MB (Expandable to 8 MB)
- Small Foot Print
w/200 W.P. Supply
- 1.2 Teac Drive

- 40 MB Hard Drive
- 1:1 Control Card
- 2 Serial, 1 Par., Game
- 101 Keyboard
- Mono Graphic Card
- 14" Monitor Amber

Free Surge Unit, Disk Storage

386-33^{MHZ}

\$ **1850⁰⁰**
COMPLETE

- 386 -33 MHZ M/Board
- 1 MB (Expandable to 8 MB)
- Small Foot Print
w/200 W.P. Supply
- 1.2 Teac Drive

- 40 MB Hard Drive
- 1:1 Control Card
- 2 Serial, 1 Par., Game
- 101 Keyboard
- Mono Graphic Card
- 14" Monitor Amber

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Window of Specials

- Chicony 286-16 MHZ Lap Top \$1895
- 2400 Baud Modem \$ 72
- VGA Monitor (.31) \$ 320
- Logitech Hi Res Mouse \$ 75
- 4800 Baud Modem \$ 120
- Paradise VGA-16 \$ 112
- 512K, 1024 x 768 (OEM)

- 486 Systems Available
- Network Available

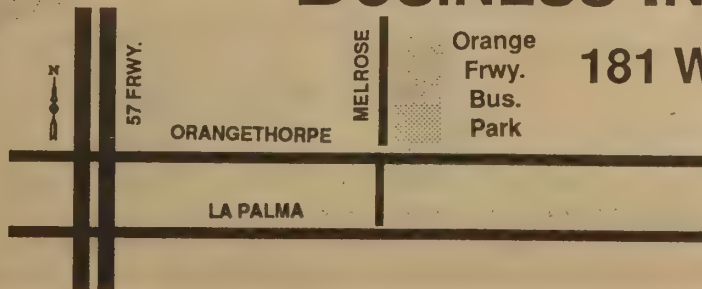
- Micronics Systems
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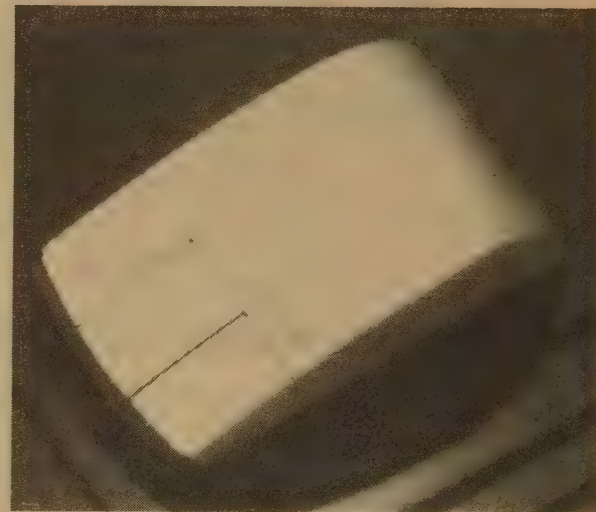
NEW PRODUCT BUYERS GUIDE

ZEN AND THE ART OF MICE

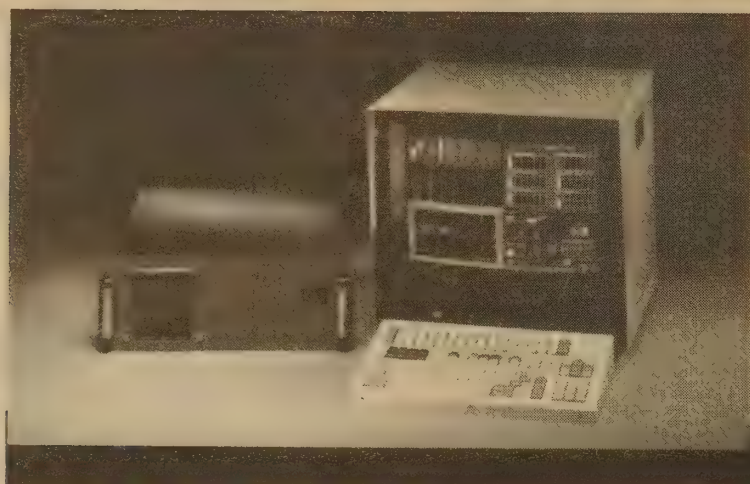
Zen Mouse, from Zeny Computer Systems, uses a new two-wheel direct drive system that significantly controls maintenance problems associated with conventional ball mice. Its tough urethane wheels help push away dirt and debris, allowing smooth tracking on virtually any flat surface, at any angle.

This button mouse is compatible with Microsoft, Logitech and MSC mice. It is available in cordless or corded models for IBM PC, PS/2, and compatibles.

(Cordless \$129, Corded, \$89) Zeny Computer Systems, Inc., 4033 Clipper Ct., Fremont, CA 94538. (415)659-0386.



HARDWARE



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Aydin Controls, a leading US manufacturer of Display Graphics equipment, has introduced a new, high performance workstation, the Model 4340. It is an industrial-style, rackmount workstation, ideal for light manufacturing environments. Included as standard features in the 4340 is a 20MHz Intel 386SX processor, 1Mb system memory, eight expansion slots, one 5.25" 1.2Mb floppy drive, one parallel and two parallel ports, VGA graphics card and 15" or 19" rackmountable Aydin VGA monitors. Aydin Controls, Inc., 414 Commerce Dr., Fort Washington, PA 19034. 1-800-366-8889.

YEAR-END WAREHOUSE SALES

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SYSTEMS:

386-33 64K Cache	\$1,179
386-25 64K Cache	\$1,039
386-25 Non Cache	\$889
386-SX	\$679
286-16	\$409
286-12	\$379

OPTIONS

12" Monitor w/MGP Card	\$82
14" Monitor w/MGP Card	\$109
12" VGA 640x480 w/VGA Card	\$329
14" VGA 1024x768 w/VGA Card	\$419
42 MB WD Hard Drive	\$249
100 MB Conner Drive	\$529

All Systems Include:

- * AT Case w/200W P/S
- * One (1) MB Memory
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- * IDE FD/Hd Controller
- * One (1) Year warranty

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WORKS	\$84

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- 1MB MEMORY(Exp. to 4MB)
- 65MBHARDDRIVE,28ms
- 1.2MB FLOPPY DRIVE
- AT I/O PORTS
- 101 KEYBOARD
- SMALL FOOTPRINT CASE
- GENIUS MOUSE GM6000

\$850

Complete system

AT386SX-16MHz / 65MB

- 14" PAPER-WHITE MONITOR
- 1MB MEMORY(Exp. to 8MB)
- 65MBHARDDRIVE,28ms
- 1.2MB FLOPPY DRIVE
- AT I/O PORTS
- 101 KEYBOARD
- SMALL FOOTPRINT CASE
- GENIUS MOUSE GM6000

\$1100

SPECIAL

PRO386-25MHz / 65MB

- 14" PAPER-WHITE MONITOR
- 1MB MEMORY(Exp. to 8MB)
- 1.2MB DRIVE
- 65MB HD,28ms
- AT I/O PORTS
- 101 KEYBOARD
- SMALL FOOTPRINT CASE
- GENIUS MOUSE GM6000

PRO386-25MHz.....\$1450.00

PRO 386-33 MHz / 64K Cache.....\$1700.00

PRO486-25MHz / 100MB

- SUPER VGA DISPLAY(1024X768)
- 4MB MEMORY(Exp. to 8MB)
- 1.2MB & 1.44MB DRIVE
- 100MB IDE,22ms
- AT I/O PORTS
- 101 KEYBOARD
- SMALL FOOTPRINT CASE
- GENIUS MOUSE GM6000

\$3500

Complete system

OPTIONS ADD TO SYSTEM

- ☐ VGA640X480(Monitor&Card).....\$275
- ☐ SVGA1024X768(Monitor&Card)..\$350
- ☐ 1.44MB Floppy Dr.....\$65

NEW

NEC P2200XE PRINTER

\$250

- Superb 24-wire print quality
- Choose from 8 resident type professional styles
- Built-in tractor and front feed for continuous form, cut sheets, envelopes
- Full software compability with popular packages

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- 80387,33MHz.....\$560.
- CycrixMath-Co.....\$Call

PANASONIC

PRINTER

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- KX-P1124,24Pins.....\$280.
- KX-P1624,WideCarriage\$375.

LASER

- KX-P4420,8PPM.....\$850.
- KX-P4450i,11PPM.....\$1275.
- KX-P4455,Postcript.....\$2250.

XT-10MHz

- 12" MONO MONITOR
- 640K MEMORY
- 360K FLOPPY DR.
- MULTI I/O PORTS
- 101 KEYS

\$395.

DRIVE

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- 65MB W/AT Ctrl.....\$375.
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w/popular software drivers

1024X768 **NEW!!!**

- ATI PROFESSIONAL IMAGE
Cardw/Softwares.....\$995.
- 14"MONOMONITOR.....\$98.
- VGAMONITOR.....\$300.

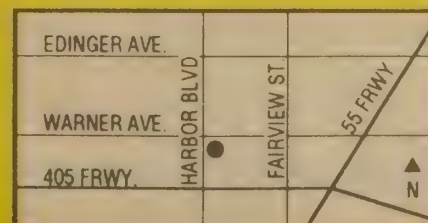
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The 1990 MicroTimes Writers'

SOAPBOX

AWARDS

Our writers are a pretty independent-minded lot. This one likes Windows, that one likes DESQview. One likes Lotus, one likes Quattro. Whatever the product, ask our writers and you're almost sure to get several conflicting reports. Which is, we think, as it should be.

So when it came time to pick their favorite products for the year, some dutifully named five hardware and five software products. Some invented categories of their own. Some wrote mini-novels on their adventures with the products. And some, of course, announced that they hadn't seen any products in 1990 that were worth recommending to anybody.

Here, then, in all its quirky glory, is our writers' accumulated product wisdom of the year, to entertain and enlighten you on your next shopping trip and in your research in the coming year.

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ROBERT D. ATHEY, JR.

Hardware

Walkabout/SX 386

Data General Corp.

This laptop computer replaced three others I had!

Software

Quality Analyst

Northwest Analytical

Program for statistical process control

Spinrite II

Gibson Research

Hard disk utility

Chagunizu

Big Blue

Game

Klondike

Big Blue

Solitaire game

LENNY BAILES

Hardware

Maxtor Hard Drives

Industrial strength!

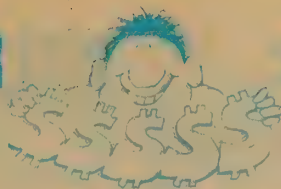
Macintosh SuperDrives

Apple Computer

Now the Apple File Exchange software and these drives, standard on all currently shipping Macs, let us copy MS-DOS or even Ile ProDOS files to the Mac with no fuss or network hassle.

Software

DESQview 2.31, QEMM 5.11



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Fujitsu 101 Click Keyboard.....	\$ 53.00
Generic 101 Keyboard	
Function Keys on Left.....	\$ 52.00
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Full Size AT Case 3 ext / 2 intl.....	\$ 50.00
Mini Case 3 ext 5 1/4 / 1 ext 3 1/2	
w/ 200 Watt Power Supply.....	\$100.00
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w/ 200 Watt Power Supply.....	\$150.00

Monitors

Mono Monitors Amber 12".....	\$ 75.00
Mono Monitors Amber 14".....	\$ 85.00
VGA White Monitor 12".....	\$110.00
Color Monitor (640x240).....	\$200.00
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Super VGA Monitor (1024x768).....	\$450.00

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360K Teac.....	\$ 62.00
720K Teac.....	\$ 75.00
1.2 Meg Teac.....	\$ 81.00
1.44 Meg Teac.....	\$ 85.00

Hard Drives

20 Meg / 65 MS / MFM.....	\$190.00
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65 Meg / 28 MS / RLL.....	\$330.00
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Modems

2400/1200/300 Internal.....	\$ 90.00
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2400 Internal w/Send Fax.....	\$100.00
Fax / Modem Card.....	\$200.00

Hardware

Monochrome Graphics Card	
w/ parallel port.....	\$ 36.00
Color Graphics Card w/ Parallel Port..	\$ 36.00
VGA Card 16 Bit.....	\$160.00
Paradise 1024 Card (256K).....	\$225.00
XT / MFM H.D. Controller.....	\$ 52.00
Floppy Drive Controller.....	\$ 15.00
Hard Floppy Controller for AT(WA6)....	\$ 50.00
IDE AT Controller.....	\$ 95.00
Disk I/O Par, Serial, Game, Clock.....	\$ 40.00
Floppy Disk Controller (360K-1.44)....	\$ 45.00
12 MHZ XT Motherboard.....	\$ 65.00
12 MHZ AT 286 Motherboard.....	\$160.00
16 MHZ AT 286 Motherboard.....	\$210.00
150 Watt Power Supply.....	\$ 40.00
200 Watt Power Supply.....	\$ 50.00
230 Watt Power Supply.....	\$ 55.00
Serial Card.....	\$ 16.00
XT Game Card (2 Ports).....	\$ 10.57
Parallel Card.....	\$ 12.00
AT I/O Card, Par., Game, 2-Serial....	\$ 38.00

PC / XT

PC / XT System Board 12MHZ
640K on Board
150 Watt Power Supply
Keyboard (101)
2-360K Floppy Disk Drive
Floppy Controller
w/ Mono Monitor & Card
At Jr. Case
1 Yr. Warranty on Full System
*** \$500.00 ***



PC / AT

286 System Board
1 Meg on Board
200 Watt Power Supply
Keyboard (101)
1.2 Meg Drive
HD / FD Controller
w/ Mono Monitor & Card
Mini Case
1 Yr. Warranty on Full System
*** 12MHZ - \$650.00 ***
*** 16 MHZ - \$750.00 ***



386 Computer

386 System Board 25 MHZ
1 Meg on Board
230 Watt Power Supply
Keyboard (101)
1.2 Meg Drive
1.44 Meg Drive
HD / FD Controller
Full Size Case
1 Yr. Warranty on Full System
*** \$1100.00 ***

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Citizen 200GX.....	\$190.00
Citizen GSX-140.....	\$290.00
Color Kit for 200GSX-140.....	\$ 50.00



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Includes Sleeves & Labels).....	\$.75

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2 Way Centronics	
Crossover (CN36ABX).....	\$ 30.67
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4 Way Serial (DB25ABCD).....	\$ 18.67
2 Way Serial	
Crossover (DB25ABX).....	\$ 28.00
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Serial 6' Cable Male-Male/.....	\$ 4.27

3 1/2" Diskettes

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DS/DD (colors).....	\$ 1.10
DS/HD.....	\$ 1.50
Memory Punch.....	\$ 6.00



Color Kits for the Deskjet
from \$16.00
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Quarterdeck

Within two months after the release date of the incompatible Windows 3.0, Quarterdeck produced superior memory managers which let Windows run under DESQview on both 286 and 386 platforms.

Hyperdisk

Hyperware

Hyperdisk is the most talked-about shareware product on both the Windows and DESQview FIDONet echoes. It is a superlative disk cache which outperforms many commercial competitors. Hyperdisk is compatible with Windows 3, and will cache all of your hard disks and floppies. It is written to be compatible with third-party partitioning software like SpeedStor and Disk Manager. (Hyperware, 14460 Sycamore Ave., San Martin, CA 95040)

SpeedStor

Disk Integration Software

It's nice to be able to press just two keystrokes and have SpeedStor automatically install a large hard drive. SpeedStor can do both low and high level formats. It creates partitions larger than 32Mb under DOS 3.xx. In most cases, you don't have to look up information about heads, cylinders, etc. SpeedStor recognizes what kind of drive you have and makes it bootable while you go off and read a magazine.

Norton Utilities 5.0.

Symantec

The Norton Disk Doctor brought my cross-linked or unreadable hard drive back from limbo several times this year. The Diskfix utility can recover data from floppies with unreadable sectors. Version 5 of the Utilities has a new feature which can make any hard drive or floppy bootable, by installing DOS system files. This avoids the problems formerly encountered in upgrading or switching from PC to Microsoft DOS.

Menupict

This is a shareware Macintosh INIT which allows you to capture pulldown menus when you do a screen dump with the Command-3 combination. Really useful for screenshot documentation. (Douglas S. Wyatt, Opcode Systems, 1024 Hamilton Ct., Menlo Park, CA 94025)

heaviest-duty applications, and it's good-natured with a variety of paper sizes and formats. It's also a whole lot easier to haul up and down the stairs than the traditional LaserWriter IIs.

Macintosh IIfx

Apple

For serious graphics and publishing applications, this is the one. Fast, responsive, and a pleasure to work with.

Macintosh IIfx

Apple

Apple probably had to discontinue something now that all those new Macs are coming out. Unfortunately, to my way of thinking, this wasn't it. Whether by design or accident, the one we've got here has been chugging along like a champ since the day after the rollout. It has never failed with anything we hooked it up to. True, I have heard the occasional story of a user who had trouble with one, but unless you absolutely need the speed, power and expense of the fx, I'd recommend checking around to see if you can get a good price on the cx your dealer might still have in stock.

19" Trinitron Monitor & Spectrum/24 Series III Graphics Card

SuperMac

This is what we've got attached to the fx to make our most heavy-duty workstation. It's sharp, it's fast, it's flicker-free. So far we haven't seen anybody else's 24-bit system that even comes close, at least in terms of being pure pleasure to work with and a boon to the eyes.

MSF 300Z Color/Gray Scanner

Microtek

Several of us seem to have discovered scanners this year. This is the one we use here. It will turn your paper photo or line art into files your graphics and page layout programs can work with. It does 24-bit color and grayscale scans, and it's so easy to use even an editor can do it.

Software

Adobe Photoshop

Adobe

(Truth-in-editorializing disclaimer: Steve Guttman, who used to write for us, went to work for Adobe a couple of years ago. He used to call me up and drop tantalizing hints about this life-changing product he was working on as product manager. This was it. He was right, even though it took six months of enthusiasm from the art department and a photographer friend's deadline crisis to get me to look at it.)

While this product really shines for manipulating digitized photos (Want your ex-SO out of the picture? No problem. Think that image would look better with a paisley background? Piece of cake. Tearing your hair because your best shot has a big scratch on the negative? Smudge it away!), it's also great for working with line art. And if you can use MacPaint, you can use this, even though it's a lot more capable and intelligent (a

MARY

EISENHART

Hardware

Personal LaserWriter NT

Apple

Notwithstanding the name, the PLWNT is perfectly capable of handling the printing requirements of at least small networks as well as individual users. Its output is sharp and clear, its speed well within acceptable range for all but the

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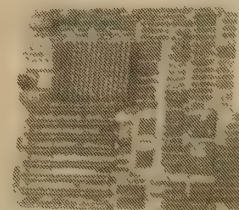
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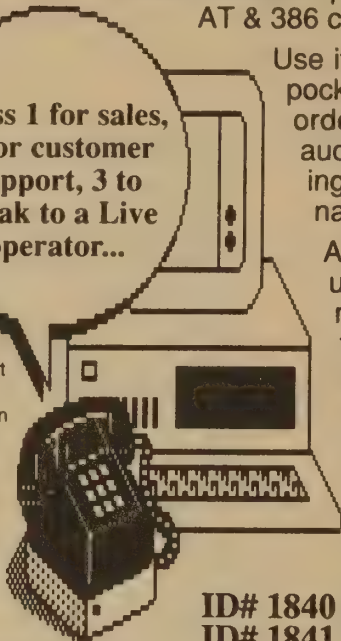
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paint bucket that knows what areas it's supposed to fill, for example).

I'd like to see the next version support the standard Mac drawing tools (boxes, ellipses, etc.), because it seems sort of silly to have to import your finished graphic into PageMaker or some such for that kind of embellishment. And, of course, this package is at its best on a system with lots of fast CPU, lots of RAM, and lots of disk capacity.

Possibly Adobe is in league with the various vendors of fast CPU, RAM upgrades, and huge mass storage devices. Because to see and use this product is to be overwhelmed with the possibilities.

Norton Utilities For Macintosh Symantec

We swear by SUM and SAM around here to keep our hard disks healthy and virus-free. However, Symantec's acquisition of Norton Computing appears to be making things even better for DOS, Mac, and UNIX users.

Unlike a lot of packages that migrate to Mac from the PC universe, The Norton Utilities were ported with grace and elegance. The interface (unlike its PC counterpart) is positively engaging and makes it easy to find out just about anything you'd want to know about your hard disk and improve its performance.

The package also includes a lot of nice touches in addition to the DiskDoctor program. Including Directory Assistance, which nearly brought

tears to my eyes by presenting me with dialog boxes opened to the last file I used, instead of the one that's at the top of the alphabet in that folder. I've been wanting that ever since I've been using a Mac.

MicroPhone II v3 Software Ventures

I've been totally dependent on this product ever since it was in beta test...

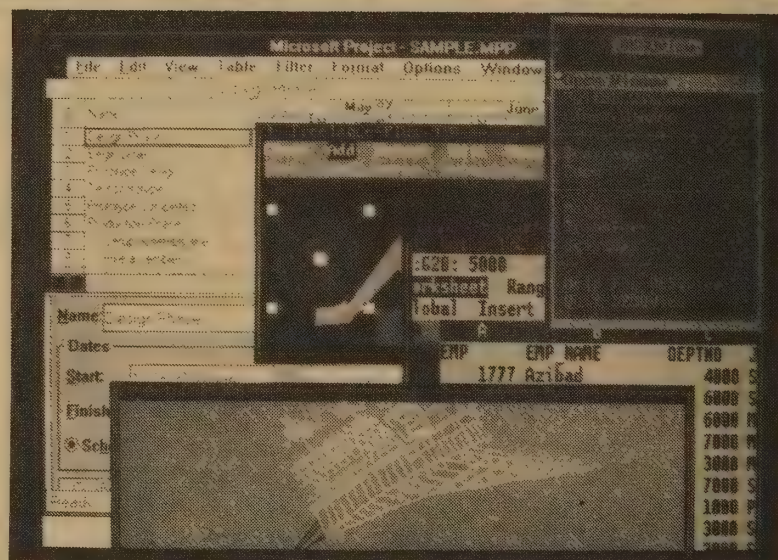
The online world is fraught with perils and difficulties, especially for us Mac users who come to expect a certain standard of ease of use. MicroPhone, particularly in its latest, most powerful version, makes the power of telecomm accessible and helps you bypass most of the pain and suffering.

KanjiTalk APDA

This is Apple's Japanese operating system for the Macintosh. My Japanese is so bad I can barely recognize "Yes" and "No" in a dialog box, but this software adheres so well to the Mac conventions I've come to expect that I was able to install it on several hard disks without benefit of manual or dialog box comprehension. All my US-version Mac applications run in English just fine. Plain old American MacWrite II running under KanjiTalk allows me to mix English and Japanese text in a single document.

Currently the software is only available from the Apple Programmers and Developers Association, perhaps be-

Writer Favorites Of 1990



DESQview 2.31

Quarterdeck

Says Lenny Bailes: "Within two months after the release date of the incompatible Windows 3.0, Quarterdeck produced superior memory managers which let Windows run under DESQview on both 286 and 386 platforms."

Adds Ed Kahn: "The new version lets you run Windows, thus allowing you to multitask all PC software, regardless of whether it was written for DOS or Windows."

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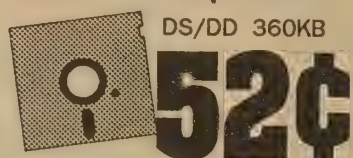
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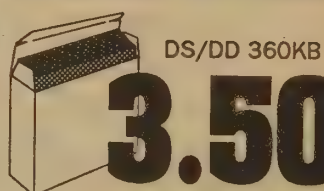
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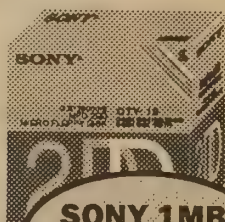
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cause of the difficulty of supporting foreign-language software in the US, and the documentation is sketchy and technical. Nonetheless, this software is a godsend, not only for good-looking international correspondence, but also for students of the language; I suspect Apple could sell quite a bit of KanjiTalk (and incidentally quite a few Macs) on college campuses around the country. I brought the Mac Portable running KanjiTalk to my Japanese class, where it immediately ruined the day of my PC-using classmates who realized they'd have to buy a Mac to run it.

Ludwig Van Beethoven: Symphony No. 9

The Voyager Company

This is a great interactive learning package, an excellent implementation of what HyperCard makes possible. You're able to explore the life and times of Beethoven by pointing and clicking, and understand the finer points of his music by hearing it as the screen offers illustrations and text-based explanations. If this software is any indication of things to come, it's worth having a Mac and CD-ROM player for this type of software alone.

Voyager has even come up with an elegant solution to the abysmal speed of the current crop of CD-ROM drives (which gets to be a real problem when you're running a CD-ROM-based package like the Whole Earth Catalog or Manhole). The software runs off your hard disk. What's in the CD-ROM drive is simply a commercial, audio-only CD-ROM of the Ninth Symphony. You click, you hear music. You don't have to take the dog for a walk while you're waiting

for the software to load.

Voyager has other packages available and in the works. Check them out. (213/451-1383)

PAUL HOFFMAN

The five best information sources for the PC industry:

P. C. Letter

Stewart Alsop's slightly-more-than-monthly newsletter about software that is about to come out, the big picture on integrating systems and software, and honest evaluations on what the customers want from the large manufacturers. (PC Letter, 3 Lagoon Dr., Suite 160, Redwood City, CA 94064, 415/592-8880)

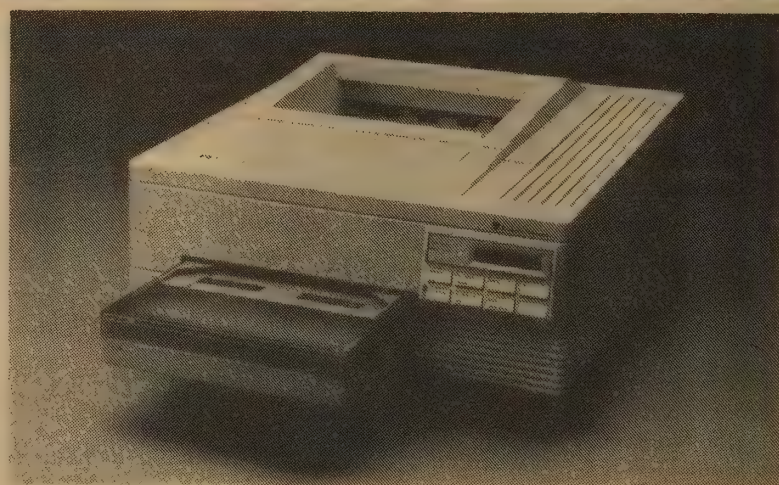
Microprocessor Report

Too nerdy for many, this gem has the best information on what is happening in the world of CPUs and support chips. No sides are taken, so RISC chips don't seem any "hotter" than the next Intel embedded controller. (Microprocessor Report, 874 Gravenstein Highway South, Suite 14, Sebastopol, CA 95472, 707/823-4004)

PC/Computing

This is certainly the least expensive of this bunch. The editors have a much better-than-average grasp of what the not-so-thrilled user wants to know and when to cut off an article. There is much less fluff here than in the other maga-

Writer Favorites Of 1990



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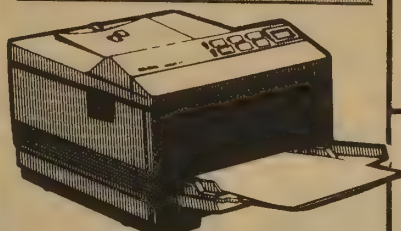
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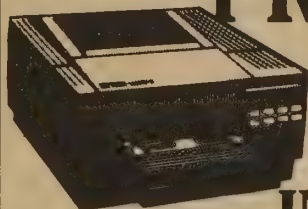
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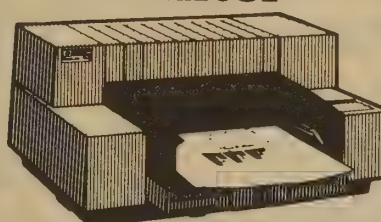
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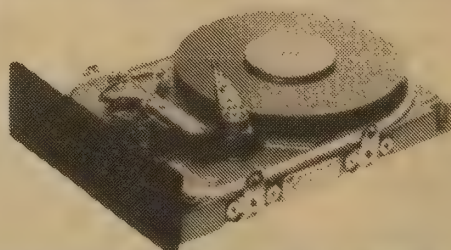
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zines. (PC/Computing, 4 Cambridge Center, Cambridge, MA 02142, 617/492-7500)

PC Week

More nuts and bolts, often very technical, but also much more complete than monthly magazines. A weakness is trying to make the most mundane announcements seem like "news," but it is still the best source for people who have to buy dozens of PCs or Macintoshes at a time. (PC Week, 800 Boylston St., Boston, MA 02199, 617/375-4000)

User Groups

If you want to know what people don't know, nothing beats your local user group. Every manual writer and technical support person should be required to go, if only to find out what false assumptions are being made in the industry.

Five ideas that were good in 1980 but should not still be in use in 1990:

- Command-line interfaces that don't make guesses for you when you type something incorrectly.
- 1200 baud modems.
- Jumper blocks on any hardware that a user will ever touch.
- Marketing geeks who don't know much about how a piece of hardware or software is actually used but can tell you lots about its features.
- Computer stores whose technical support staff is unable to talk to rank beginners.

ED KAHN

Hardware

LaserJet III

Hewlett-Packard

The newest and best in the line of HP lasers. Almost affordable.

Smart Label Printer

Seiko Instruments

Prints labels as a simple solution to addressing envelopes.

ScanMan Plus

Logitech

Hand-held scanner. Lets you scan text and graphics. Lots of fun.

Switchboard

Datadesk

A modular keyboard that lets you lay out your keyboard exactly as you like. One of the optional modules is a trackball. (Datadesk, 818/998-4200)

OmniKey Ultra Northgate

A superb keyboard designed for the most discriminating user. It has everything. (800/526-2446)

Software

Grandview

Symantec

The powerful new version lets you outline and organize. A tremendous program for the writer.

Quicken, version 4

New improved best-selling financial record keeping software. Still the best in its field. Simple and inexpensive.

Windows 3.0

Microsoft

This powerful new version will revolutionize the world of PC compatible computing.

DESQview

Quarterdeck

The new version lets you run Windows, thus allowing you to multitask all PC software, regardless of whether it was written for DOS or Windows.

Bootcon

Modular Software Systems

An unusual program that lets you set up multiple config.sys and autoexec.bat files. At bootup time, you choose which set you want to run. Will allow up to twenty-six different config.sys autoexec.bat pairs from which to choose. Easy solution to a small problem. (Modular Software Systems, 115 W. California Blvd, Suite 113, Pasadena, CA 91105, 818/794-7602)

MATTHEW LEEDS

Amiga 3000

Commodore

Fast, powerful, with an operating system that has matured. It's got a display that doesn't flicker, a case that doesn't look Army surplus, and a price/performance ratio that makes sense. Now if only the Toaster would fit inside.

ProWrite 3.1.1

New Horizons Software

New Horizons Software's word processor merges the user interface of MacWrite with the power of the Amiga. Dictionary, thesaurus, macros, graphics, color, fonts, and great multi-column support; a tool for everyday use. (New Horizons Software, 206 Wild Basin Rd., Suite 109, Austin, TX 78746)

Diskmaster 1.4

A must-have for file maintenance on the Amiga. This latest version runs under all versions of ADOS including 2.0,

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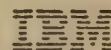
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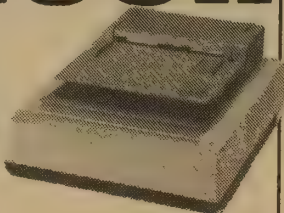


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adds support for ARC, LHARC, and ZOO, and provides an integrated environment for copying, displaying, and manipulating files. Much easier than CLI commands. (Progressive Peripherals & Software, 464 Kalamath St., Denver, CO 80204)

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Best Apple II products of 1990

A dying computer that's still a billion-dollar-a-year market; a system that clings to a dominant market share in K-12 education, despite Apple's best efforts to kill it off...

1990 has been a grim year for the Apple II and its millions of devoted fans, with a few bright spots amid the gloom:

Best Hardware Product

Apple II High-Speed SCSI Card

Apple Computer, Inc.

The year's only new Apple II hardware product from Apple, this exquisitely engineered low-cost board proves that there are still some tweaks in Apple's labs who can teach an old dog new tricks.

Best Company

Beagle Brothers

While other Apple II developers have stampeded to the Mac, this small outfit has continued to provide amazing utilities and add-on products for thousands of AppleWorks users, while developing a major new paint program for the IIGS. (6215 Ferris Square #100, San Diego, CA 92121, 619/452-5500)

Best Commercial Software (Creative)

Print Shop Companion For The IIGS

Brøderbund

The original Print Shop for the IIGS has become outdated, but this new standalone package is proof that Brøderbund has kept faith with a huge installed base of loyal users. Includes page layout, font editor, label printer, calendar maker and many other useful functions.

Best Shareware

ShrinkIt GS

Andy Nicholas

Continuously improved and well-supported, this delightful file compression and extraction program is a great example of what the IIGS could have been, if Apple had only tried a little harder. (Available on most online services with an Apple II SIG.)

Best Arcade/Action Game

Arkanoid II: The Revenge Of Doh

Taito

It is a bitter irony that game programs for the IIGS cannot be written to Apple's programming guidelines and still have acceptable performance. As game publishers abandon the Apple II market, even conversions of games developed for other computers have stopped appearing. The Arkanoid games are among the few in this category that play and feel right with a mouse rather than a joystick. Great fun.

Best Macintosh Products Of 1990

Best Hardware Product

DeskWriter

Hewlett-Packard

Only Hewlett-Packard could take the simple, elegant technology of the ink-jet and develop it to a level of performance that compares very favorably to laser printers costing three times as much. In customizing the original DeskJet for the Macintosh, HP shows admirable understanding of the special needs of Mac users. Bravo!

Best Strategy Game

Stratego

Accolade

A sparkling computer implementation of a classic kid's board game. Superb color graphics, but still enjoyable in monochrome.

Best Software For A Specialized Function From A Little Company

TopDown 2.0

Kaetron

Any Mac drawing program lets you make nice flowcharts, but TopDown is a powerful and flexible flowcharting environment. It is well-supported, and closely follows the Mac user interface. Expensive at \$295, but worth it for anyone who has to create a lot of flow charts. (12777 Jones Rd. #445, Houston, TX 77070, 713/890-3434)

Best Blockbuster Software Product From A Big Company

PageMaker 4.0

Aldus

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14" VGA Color Monitor (640x480)	\$275.00
14" Super VGA Monitor (1024x768/28mm)	\$360.00
CTX 5468 14" Super VGA (1024x768/28 MS)	\$390.00
NEC 3D (1024x768/28mm dot pitch)	\$675.00
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	MONO (720x350)	VGA (640/480)	Super VGA (1024X768)
286-16..	\$900.00	\$1125.00	\$1225.00

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	MONO (720x350)	VGA (640/480)	Super VGA (1024X768)
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386-25 ..	\$1450.00	\$1650.00	\$1750.00

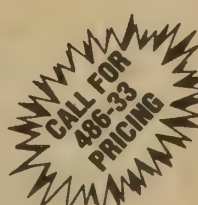
Baby Case/220W Power Supply, 2 Ser/1 Par/1 Game, Clk/Cal. 1.2 MB Floppy Disk Drive, 1.44MB Floppy Disk Drive, Dual Hard & Floppy Drive Controller, 40 MB Hard Disk/28 MS Access Time, 1 MB RAM, Fully Assembled and Tested, One Year Warranty, Free Public Domain Software!

	MONO (720x350)	VGA (640/480)	Super VGA (1024X768)
386-33 ...	\$1700.00	\$1925.00	\$2025.00

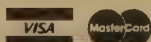
Mini Vertical Case/200W Power Supply, 2 Ser/1 Par/1 Game, Clk/Cal. 1.2 MB Floppy Disk Drive, 1.44 MB Floppy Disk Drive Dual Hard & Floppy Drive Controller, 40 MB Hard Disk/28 MS Access Time, 1 MB RAM, Fully Assembled and Tested One Year Warranty Free Public Domain Software!

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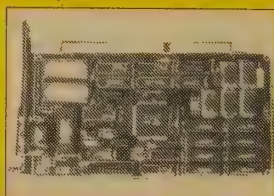
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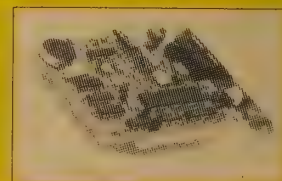
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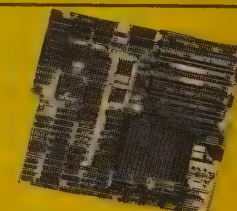
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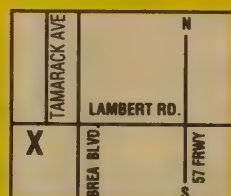
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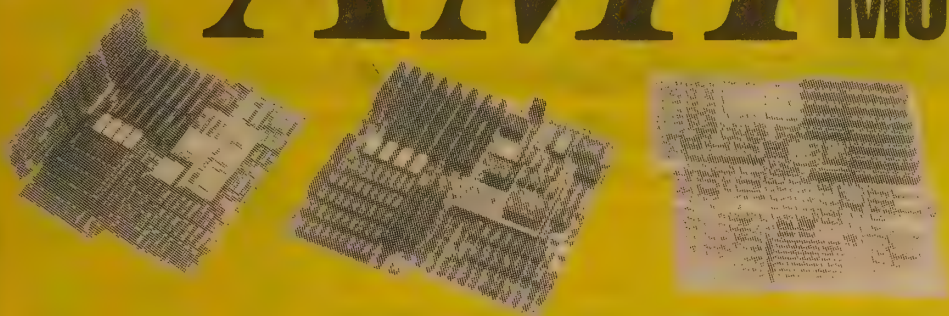
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Voyager 486-25/33 MHz

The Voyager features the latest in state of the art 486 technology, at a price that offers the biggest bang for your buck.

EISA 486-25/33 Enterprise

The Enterprise uses the AMI EISA BIOS with built-in set-up and diagnostics and supports all the new EISA features. The Enterprise is well suited for popular applications relating to CAD, CAM, networking, multi-user and multi-tasking functions.

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The advanced AMIDIAG Utility from AMI is fully menu driven and compatible with 286, 386, 486 machines. In addition to checking system board, memory and peripherals, AMIDIAG also provides a graphical representation of DRAM and SIMM memory error plus error logging on both disk and printer. This utility performs diagnostics for: System board, Memory, Hard Disk, Floppy Drive, Video, and more.

PC Magazine, Aug. '90 writes, "It's simple to use, appears to be extremely accurate, and should be added to your must have list of software."



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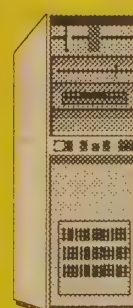
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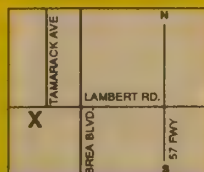
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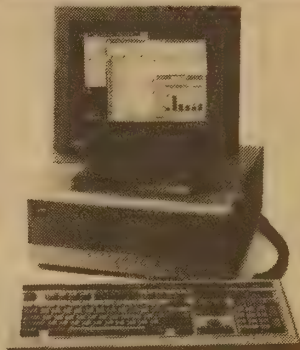
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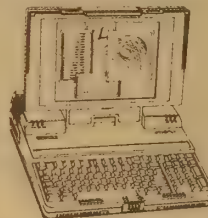
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accretion of new features heaped onto a complex and sometimes frustrating classic. This major rewrite shows that Aldus listens carefully to its customers and seriously strives to give them what they want and need.

Best Hardware Solution To A Problem Nobody Had

Radius Pivot Monitor
Radius

It's a regular monitor for spreadsheets; it's a portrait monitor for page layout. Ooooh, you rotate the screen and it switches effortlessly back and forth between the two modes. Aaaaah, it's an expensive yuppie toy for users who still haven't mastered the use of scroll bars and zoom boxes.

Best Software Solution To A Problem Almost Everyone Had

Adobe Type Manager
Adobe

It makes many fonts look better on the Mac screen and print better on non-PostScript output devices. It's inexpensive, small in size, and reasonably well-behaved as an INIT in your System Folder. Successive versions have kept getting better. Bo knows everything, but Adobe knows fonts.

Best Shareware Utility Program

Compactor v1.2
Bill Goodman

A tiny but powerful file compression and extraction utility that can handle standard Stuffit archives, but offers better performance in some areas. (109 Davis Ave., Brookline, MA 02146. Only \$25!)

Best Thing From Apple, Coming Soon From Claris

HyperCard 2.0

The Holy Grail of personal computing is a magical application that will let non-programmers do programming. Like the non-addictive painkiller, or the honest politician, this "software erector set" is an elusive goal, but HyperCard has come closer than anything else to reaching it. The long-delayed 2.0 release has over one hundred new features, including cards of any size, an icon editor, better script editing and improved printing options. Apple's decision to ship only a run-time version with new Macs while splitting off the full package as a Claris product is typically short-sighted corporate greed, and should not detract from our admiration of what the HyperCard development team accomplished.



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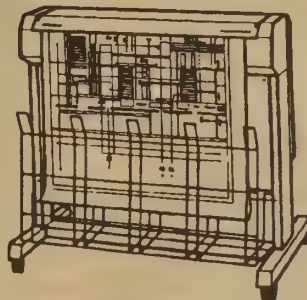
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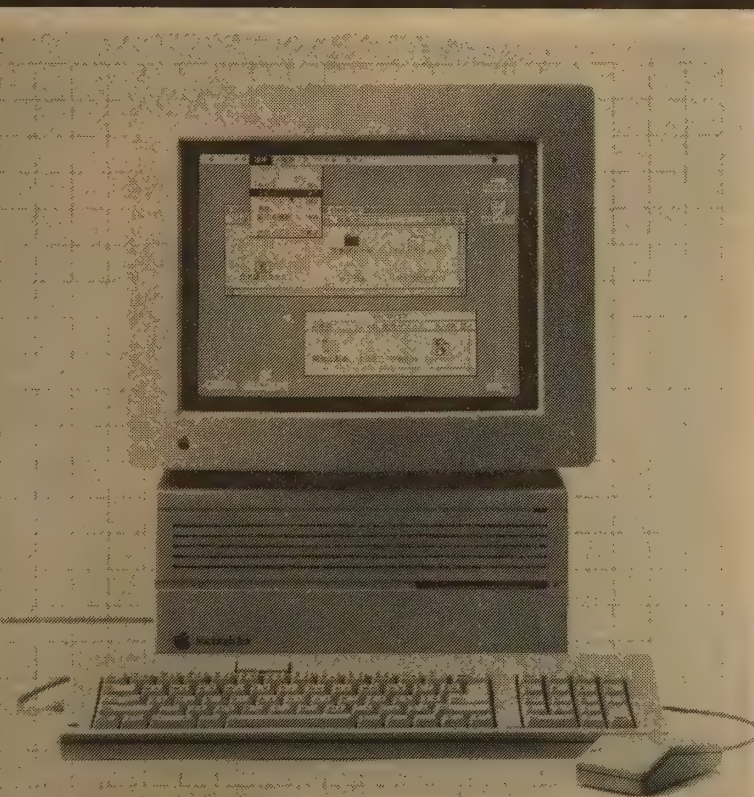
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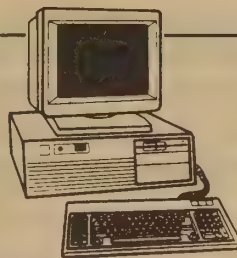
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December 16, 1990 SUNDAY
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January 6, 1991 SUNDAY
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The 1990 MicroTimes Writers' Soapbox Awards

DAVID MORGENSTERN

The Best Hardware

NeXTstation Color

The 16-bit, PostScript color version of NeXTstation. The hard-headed dream machine. Doesn't have any good games—a major problem.

Wacom SD-510 Digitizing Tablet

It's not a desk hog, and can be used as a mouse pad when not in use. The cordless pressure-sensitive stylus is awesome, lightweight and elegant. It uses up a serial port, but that's why it runs circles around the turtle-slow ADB tablets.

The L-View MultiMode Display

Sigma Designs

This monitor toggles between a whole palette of resolutions for different graphic needs: 36, 60, 72, 92, and 120 DPI. As if this wasn't enough, it also meets the Swedish government's strict standards for magnetic emissions.

The BMUG Tie-Dyed T-Shirt

It's soft hardware! You'll make a lot of

new friends in this shirt, since everyone wants to talk about BMUG! Available from the BMUG Office for only \$15.

The BMUG PD-ROM Version II

It's hard software! Finally shipping is the disk that no CD-ROM player should be without. Available from the BMUG office for \$100.

The Best Software

Boomerang/Super Boomerang

This shareware success by Berkeley author Hiro Yamamoto went commercial a couple of months ago, and is part of the Now Utilities. Boomerang helps you maneuver quickly around your Macintosh. Should be system software.

Disinfectant

The freeware virus fighter by Saint John Norstad. Available on BMUG Utilities 8 disk.

After Dark

Berkeley Systems

This screensaver turns your Mac into a kinetic-sound sculpture. I like the Fish! and String modules.

MicroPhone II

Software Ventures

I couldn't get online and love it without

Writer Favorites Of 1990



SpinRite II v1.1

Gibson Research

Yacco says of this popular hard disk utility, "The old version would do the improbable. Damn Sherlock Holmes, I have seen this version do the impossible."

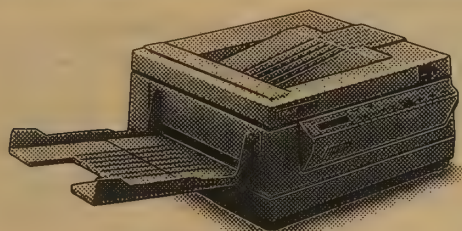


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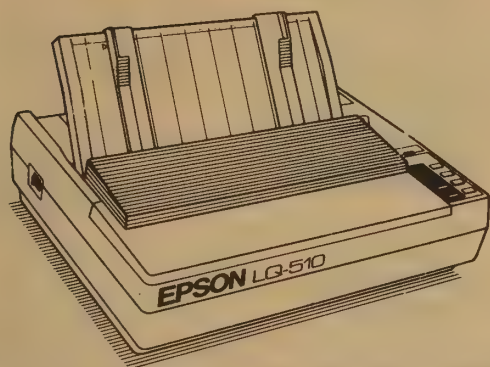
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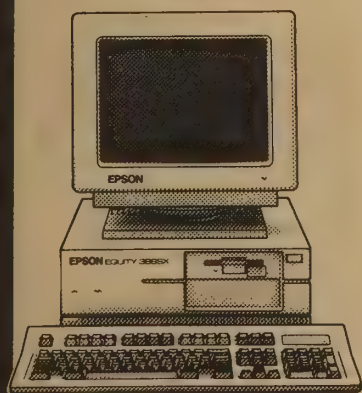
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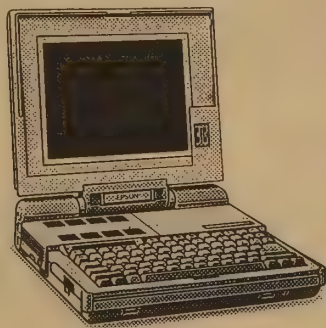
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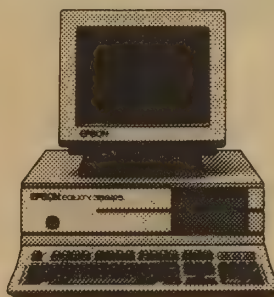
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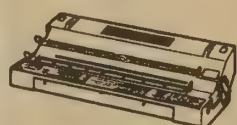
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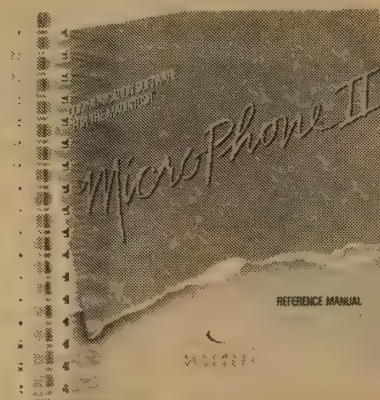
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MicroPhone II v3.0

Software Ventures

Says BMUG columnist David Morgenstern: "I couldn't get online and love it without this product. It makes CompuServe and GEnie almost bearable."

this product. It makes CompuServe and GEnie almost bearable.

Solarian II

Ben Haller

This shareware arcade game for the Mac II is commercial quality. I've been trying to persuade my wife that I'm "working" playing this game. She's not buying the story, but you buy the game. Available on BMUG Paris 23 disk.

BIRRELL WALSH

Paradox (In all its various versions)

Borland

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Current

IBM

The PIM of choice for Windows and maybe for all DOS machines. Really good "connectioneering" between items. It is also so customizable you can design it to manage anything from the daily calendar to bibliographies to image files.

FAX96

Fremont Communications

It's cheap and it works well. For under \$200 you can get both fax board and software. Occasionally in this biz there is a good deal. Fax96 is one.

JIM WARREN

Mac IICx

Apple Computer

In late 1989, I finally moved to a Mac, massively increasing utility and options.

It takes only minutes or hours to learn robust applications software, often with little or no study of manuals. The multitasking operating system is appropriate for my multitasking mind; almost all software works with it. All programs use Mac's huge address-space; all have a uniform, visual, intuitive user/command interface. Its applications use text-and-graphics displays designed for book-reading humans—rather than mono-font ASCII designed for teletype-writers.

When I moved to the Mac, I became a much more efficient *producer*. Prior to that, I was a *programmer*—that is, I used PCs. I proudly pounded them into submission, spending months with manuals, cursing their brain-damaged address-space, memorizing endless conflicting and illogical keyboard commands, and feuding with their equally chaotic hardware that makes somewhat-shaky SCSI look like Pristine Perfection.

I don't miss those years spent in the anarchistic PC Frontier. And there's hope: Windows may civilize it sufficiently for settlers—in another half-decade or more.

Borland's Turbo-Stuff

When I simply must work with the PC, I invariably turn to Borland's amazingly low-cost, amazingly high-powered Turbo everything—Assembler, Debugger, C and Pascal. For data, I like its Reflex and Paradox. I especially like Quattro's options—ain't no reason to pay more to support Lotus's litigators.

(The rest of my current favorites are for the Mac)

Micronet Disks & MOs

For disks, I'm delighted with the cost, size, speed and quiet of Micronet's

Continued on page 138

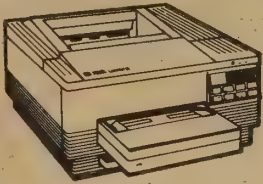


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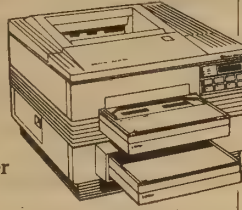
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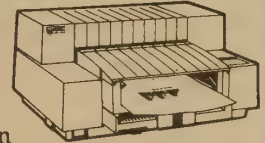
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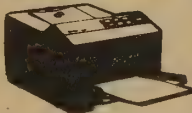
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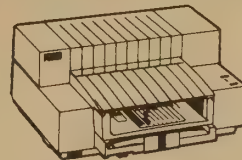
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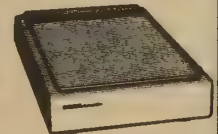


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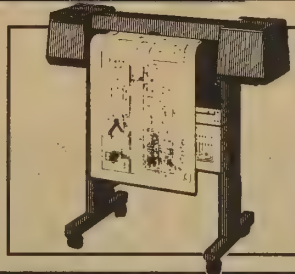
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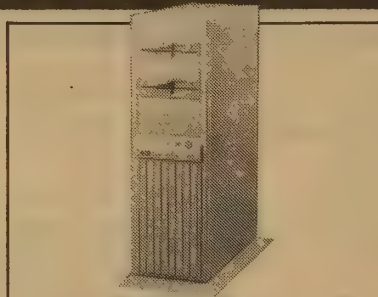
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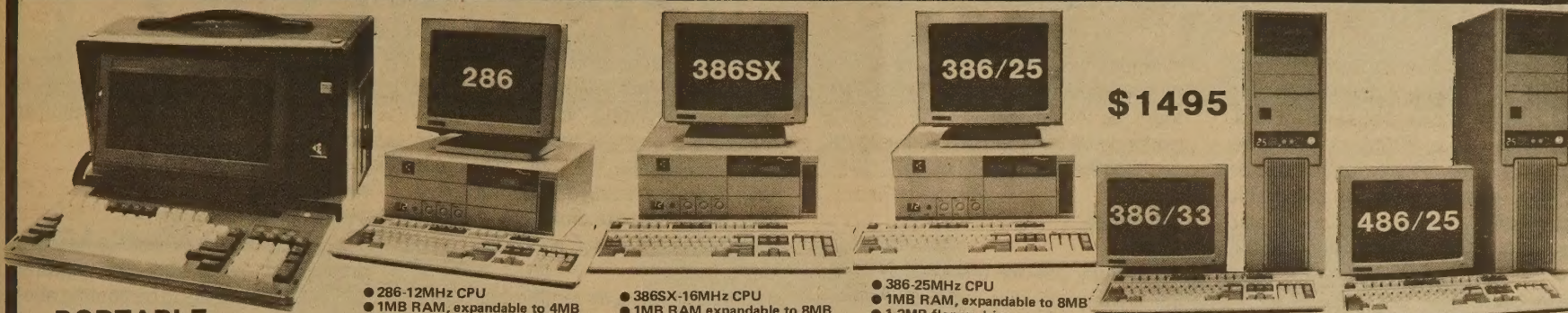
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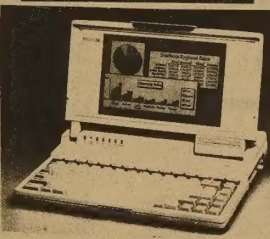
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- AST Bravo 286, 512K . . . \$950
- AST Bravo 286, 20MB . . . \$1175
- AST Bravo 286, 40MB . . . \$1330
- AST Bravo 385SX, Mod. 5 . . . \$1495
- AST 286, Mod. 70 . . . \$1079
- AST 286, 1MB, 40MB HD . . . \$1395
- AST 286, 1MB, 80MB HD . . . \$1689
- AST 386C, 20MHz, 40MB . . . \$2845
- AST 386C, 20MHz, 80MB . . . \$3095
- AST 386C, 25MHz, Mod. 5 . . . \$3395
- AST 386-33MHz . . . \$3865
- AST 486-25MHz . . . \$5250

EVEREX

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LAPTOPS



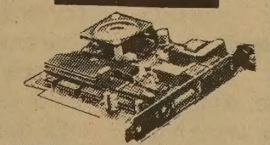
- Toshiba T1000SE . . . \$1125
- Toshiba T1000XE, 20MB . . . \$1575
- Toshiba T1200XE, 20MB . . . \$2059
- Toshiba T1600-20MB . . . \$2175
- Toshiba T1600-40MB . . . \$2449
- Toshiba T3100E-40MB . . . \$2950
- Toshiba T3100SX-40MB . . . \$3675
- Toshiba T3200SX-40MB . . . \$3895
- Toshiba T5100-100MB . . . \$4195
- Toshiba T5200-40MB . . . \$4395
- Toshiba T5200-100MB . . . \$4795

Sharp 6200, 20MB . . . \$2675

- Compaq LTE/286, 20MB . . . \$2425
- Compaq LTE/286 40MB . . . \$2725
- Compaq LTE-386SX 30MB . . . \$4550
- Compaq LTE-386SX 60MB . . . \$4850
- Compaq SLT/286 20MB . . . \$3545
- Compaq SLT/286 40MB . . . \$3875
- Compaq SLT/386 60MB . . . \$4750
- Compaq SLT/386 120MB . . . \$5295
- Compaq 386S/16 40MB . . . \$2295

- NEC Ultralite 286-12, 20MB \$2495
- NEC Prospeed 286, 20MB . . . \$2499
- NEC Prospeed 286, 40MB . . . \$2785
- NEC Prospeed 286, 100MB . . . \$3550
- NEC Prospeed 386SX, 40MB \$3450
- Prospect 386SX, 100MB . . . \$3995
- NEC Prospeed 386, 40MB . . . \$3675
- NEC Prospeed 386, 100MB . . . \$4495
- Prospect 386CSX 40MB . . . \$5275
- Prospect 386CSX 100MB . . . \$5875

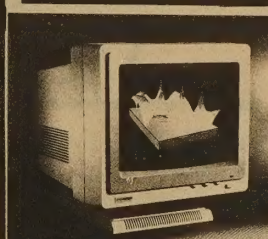
MODEMS



- 2400B Modem for Toshiba . . . \$149
- 2400 Baud Internal Modem . . . \$65
- Smartlink 2400 Internal Modem \$79
- Smartlink 2400 External Modem \$99
- Digitan 2400 Internal Modem . . . \$99
- Omni 1200 External Modem . . . \$75
- Everex 2400 Internal Modem . . . \$155
- Everex 2400 Internal w/MNP . . . \$185
- Everex 2400 External w/MNP . . . \$199
- Jet 2400 Internal w/MNP . . . \$95
- Jet 2400 w/MTE to run 4800 . . . \$125
- Jet 2400 Internal w/SendFAX . . . \$125
- Multitech 2400 External w/MNP \$375
- Multitech 9600 external w/MNP \$775

2400B Modem for Toshiba
Super Special . . . \$149

MONITORS



- Amazong 12" amber monitor . . . \$69
- Amazong 14" amber (flat) . . . \$109
- Amazong 14" VGA 640x480 . . . \$329
- Amazong 14" VGA 1024x768 . . . \$399

Everview 14" VGA 640x480 . . . \$375

- GoldStar 12" Amber . . . \$85
- GoldStar 1401 14" Amber . . . \$129
- GoldSat 1410, 14" RGB . . . \$219
- GoldSat 1420+, 14" EGA . . . \$309
- GoldStar 1430+ 14" VGA . . . \$1339
- GoldStar 1460 VGA 1024x768 \$369

- Hyundai 12" Amber . . . \$79
- Hyundai 14" VGA 640x480 . . . \$319
- Hyundai 14" VGA 1024x768 . . . \$385

- IBM 8503, 12" Paper White . . . \$235
- IBM 8512, 14" Color . . . \$449
- IBM 8513, 12" Color . . . \$575
- IBM 8514, 14" VGA . . . \$695
- IBM 8515, 20" VGA . . . \$1250

- CTX 14" B/W VGA . . . \$129
- CTX 5432 14" VGA 640x480 \$335
- CTX 14" VGA 1024x768 . . . \$399

- NEC 2A 14" VGA 800x600 . . . \$485
- NEC 3D, 14" VGA 1024x768 \$659
- NEC 4D 16" Multisyn VGA . . . \$1199
- NEC 5D, 20" Multisyn . . . \$2295

Seiko 1440 14" VGA . . . \$550

Sony 1304, 14" VGA . . . \$659

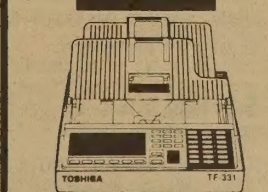
ViewSonic VS2, 14" VGA . . . \$349

ViewSonic 3V, 14" Multisyn . . . \$495

ViewSonic 4V, 14" VGA . . . \$395

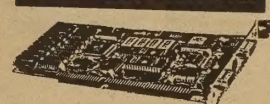
Zenith 1492 VGA (Flat) . . . \$659

FAX

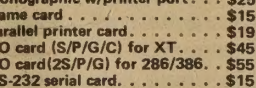


- Emerson FAX w/auto cutter . . . \$499
- Toshiba 331, 13 Sec. cutter . . . \$999
- Murata 1850, cutter, 100 No. . . \$775
- Panasonic 170E, 12 sec. cutter \$999
- Brother 350, fax/tel, cutter . . . \$699
- Brother 390, 14pg memory . . . \$825

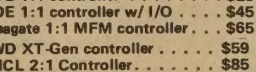
ADD-ON CARDS



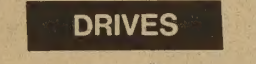
- VGA Card, 800x600 . . . \$79
- VGA Card, 1024x768, 256K . . . \$109
- VGA Card, 1024x768, 512K . . . \$129
- Super VGA card, 1024x768, 1MB, 256 color . . . \$219
- Auto Switch EGA, 640x480 . . . \$79
- RGB color card w/parallel port . . . \$25
- Monographic w/printer port . . . \$25
- Game card . . . \$15
- Parallel printer card . . . \$19
- I/O card (S/P/G/C) for XT . . . \$45
- I/O card (S/P/G/C) for 286/386 . . . \$55
- RS-232 serial card . . . \$15
- Dual fan ventilation card . . . \$65
- Floppy controller for 4 drives (360/720/1.2/1.4) . . . \$45
- IDE 1:1 controller . . . \$25
- IDE 1:1 controller w/ I/O . . . \$45
- Seagate 1:1 MFM controller . . . \$65
- WD XT-Gen controller . . . \$59
- NCL 2:1 Controller . . . \$85
- NCL 1:1 Controller . . . \$89
- DTC 7287 1:1 RLL Controller \$105
- DTC 6280 1:1 ESDI Control . . . \$175



- WD XT-Gen controller . . . \$59
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- NCL 1:1 Controller . . . \$89
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- DTC 6280 1:1 ESDI Control . . . \$175



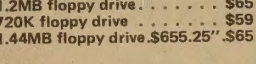
- IBM 8503, 12" Paper White . . . \$235
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- IBM 8513, 12" Color . . . \$575
- IBM 8514, 14" VGA . . . \$695
- IBM 8515, 20" VGA . . . \$1250



- 360K floppy drive . . . \$59
- 1.2MB floppy drive . . . \$65
- 720K floppy drive . . . \$59
- 1.44MB floppy drive . . . \$65



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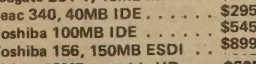
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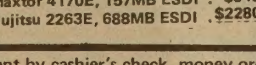
- 360K floppy drive . . . \$59
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- 720K floppy drive . . . \$59
- 1.44MB floppy drive . . . \$65



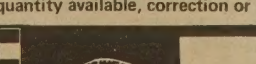
- 360K floppy drive . . . \$59
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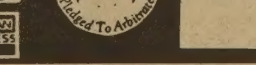
- 360K floppy drive . . . \$59
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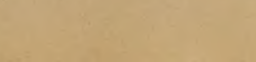
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- 1.44MB floppy drive . . . \$65



PRINTERS



- Brother 1809, 360cps, 80 col . . . \$359
- Brother 1909, 360cps, 132 col . . . \$455
- Brother 1824, 270cps 80 col . . . \$469
- Brother 1924, 270cps, 132 col . . . \$589
- Brother 2518, 360cps, 132 col . . . \$855
- Brother 4018, 480cps . . . \$1150
- Brother TwinWriter-6 . . . \$595

- Citizen 200GX, 213 cps . . . \$189
- Citizen GSX-140, 24-pin . . . \$295

Dicronic 150 injet, 80 col . . . \$385

- Epson FX-850 . . . \$339
- Epson FX-1050 . . . \$439
- Epson LQ-510 . . . \$285
- Epson LQ-1010 . . . \$459
- Epson LQ-850 . . . \$499
- Epson LQ-1050 . . . \$649
- Epson LQ-2550 . . . \$939
- Epson LX-810 . . . \$185

- Fujitsu DL3400, 24-pin 288cps, 132 column . . . \$399

H-P DeskJet 500 . . . \$565

- IBM ProPrinter III . . . \$485
- IBM ProPrinter III-XL . . . \$585
- IBM ProPrinter X24E . . . \$525
- IBM ProPrinter XL24E . . . \$689

- Okidata 172, 180cps, 80 col . . . \$199
- Okidata 182, 220cps, 80 col . . . \$239
- Okidata 320, 300cps, 80 col . . . \$345
- Okidata 321, 300cps, 132 col . . . \$445
- Okidata 391, 270cps, 312 col . . . \$615
- Okidata 393, 450cps, 132 col . . . \$949

- Panasonic 1180, 192cps . . . \$169
- Panasonic 1191, 240cps . . . \$249
- Panasonic 1124, 192cps . . . \$295
- Panasonic 1624, 192cps . . . \$389

- Seikosha SP2000, 192cps . . . \$159
- Seikosha 3005AI, 300cps . . . \$425

- Toshia P301 . . . \$315
- Toshia P311 . . . \$379

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- Toshia P311 . . . \$379

- Toshia P301 . . . \$315
- Toshia P311 . . . \$379

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- Toshia P301 . . . \$315
- Toshia P311 . . . \$379

SOFTWARE

The 1990 MicroTimes Writers' Soapbox Awards

Continued from page 134

Conner 200Mb disk. Its Sony magneto-optical cartridge-drive doubles as both a reliable backup for thousands of files, plus providing a 300Mb-per-side file-space for some of my larger databases (though slower than non-removable Winchester). Its tech support's also unusually candid and knowledgeable.

Retrospect

Dantz

I have about five thousand files on 900 megs of winnies. For reliable, compact backup, I use Dantz Software Development's Retrospect. It has repeatedly saved me. I especially like its robust user-controlled options (though I'd like to see duplicate-avoidance when archiving numerous floppies, and a user option to save a file-system structure, as well as all unduplicated file contents).

NEC Monitors

NEC's 20" 5D color monitor's delightful—and Multisync. I simply don't understand why folks pay more for monitors that work with only one or a few video boards or have fewer pixels for present use or future expansion. The 5D works with a whole batch of Mac—and PC—video cards, extending user options and equipment's useful life.

Abaton InterFax 24/96

One of the most useful optional hardware boxes I have is an InterFax 24/96. It's both a 2400-baud modem and a 9600-baud send-and-receive fax-board, with some of the better fax software currently available—and especially helpful tech support.

Abaton 300/GS Scanner

The other optional gadget enchanting me is Abaton's grayscale flatbed scanner. It has a SCSI interface (new ones have user-optional termination), and works with both the Mac and PC—

extending user options. There is also an extra-cost Mac Kit with Digital Darkroom or Image Studio. The 300/GS works delightfully with Abaton's 24/96 fax/modem.

OmniPage

Caere

My primary use for the scanner is to input newspaper clippings and articles—for "modern" filing. Caere's OmniPage is, frankly, far better than I expected from micro-based OCR. It usually recognizes 96%-99%, sometimes hitting 100%. (Its after-OCR checker has a lot of potential, but a poor user design; the spell-checker in any of several word processors satisfies checking needs.) OmniPage is unusually easy to use, has a full spectrum of options under user control, and recognizes a surprisingly broad range of fonts, often including rather scuzzy printing (even paper faxes!).

OnLocation

ON Technology

Between OCR'ed papers and megabytes of email, news and discussions downloaded from The WELL (Whole Earth 'Lectronic Link; you gotta try it!), jumbled into several hundred files, I don't even try to remember where something is filed. Super-cheap OnLocation (from Mitch Kapur's ON Technology) indexes every word in every document-class I specify—and does it, unnoticed, in the background. Searching for a single word is trivial; I use it almost daily. (I am looking forward to the addition of the ability to search for word-strings as well as independent words.)

Symantec's Think Pascal & C

For serious programming, Think Pascal & Think C are the most productive systems I've ever used—in over twenty years of programming and all but a Ph.D. dissertation in computing. They

are amazingly convenient, well-designed editor/compiler—with the most robust debugging facilities I've ever seen integrated into a single programming system. They make the very formidable task of programming a Mac much more palatable—and are amazingly inexpensive (while retaining good tech support).

I'm still looking for really robust desktop publishing programs, and powerful database tools that can handle half-gigabyte files with multiple, variable-length fields per record. This doesn't mean they don't exist; I just haven't worked with any. I'd also want to see the strongest competitors to the preceding goodies—my favorites for 1990.

WAYNE A. YACCO

Windows 3.0

Microsoft

Microsoft finally got it right. One of the most notable things at the Seybold Electronic Publishing Conference this year was the number of great applications that were showing for this environment. It's turned out to be a monster. Of course if they were being honest, they'd admit the earlier versions were betas and call it 1.0.

DeScribe Word Publisher 2.0

DeScribe, Inc.

Forget that the marketing monkeys felt it was necessary to try to create yet another software category. If you're a writer, this is the application that could make it worth investing your life savings in OS/2 and the hardware to run it. And to be fair, there are a lot of publishing applications, like manuals, that DeScribe could probably handle a lot easier than a page-layout program. (916/646-1111)

Facelift (Speedo Technology)

Bitstream

Finally fonts that look good, print fast, and don't have to fill up the whole hard disk. Works on both the screen and printer in Windows.

SpinRite II 1.1

Gibson Research

The old version would do the improbable. Damn Sherlock Holmes, I have seen this version do the impossible.

NeXTdimension

NeXT

A lot of iron: 68040 processor, Megapixel color display, 32-bit video (24-bit color and 8-bit transparency), i860 accelerator, real-time video compression, NTSC or PAL video in and out, JPEG in hardware, print and display PostScript, 8Mb main memory, another 8Mb video memory, 105Mb storage, 400-dot-per-inch printer, SCSI II ports, twisted-pair and thin ethernet ready,

optional optical and CD ROM drives, expandable to 32Mb main memory. Oh yes, and it's all held together courtesy of NeXTstep. (\$14,115)

Private Eye

Reflection Technology

A 2 oz. device that projects a heads-up display for computers. (An apparent 12" display appears to be floating about two feet in front of wherever you happen to be looking.) It could someday be known as the forerunner of all modern computer monitors.

Genoa SuperVGA 6000 Series

Genoa's 6400 was the first super VGA board to bring out 70Hz refresh in VGA's 640x480 graphics modes (despite the claims that others make and what you may have read elsewhere). But even at 60Hz, the 6400 provides a rock-steady 1024x768 on a quality monitor like the Sony HG. The 6400/A extends high refresh to the 1024x768 graphics mode also.

LaserJet III

Hewlett-Packard

The safest bet in printing for good quality at low cost. You get unmatched software compatibility and heavy interest from third-party developers and suppliers. Nothing like a lot of third parties to keep the price of extra features from resisting the pull of gravity.

ProSpeed SX20

NEC

A fast 20MHz 386SX laptop that has all the ergonomic features to compete with a desktop computer: paper-white VGA LCD, tactile keyboard, 40Mb hard disk, and a docking station for desktop use and expansion. All of the manuals—user guide, DOS, and DOSHELL—are on disk. It's virtually stress free and still only about 12 pounds.

PC4

Laser

Thinking about getting one of those little electronic spelling checkers? You can now buy a 2 lb. computer for just a few dollars more. Expected to sell for a little over \$200, the PC4 has sixteen applications (in a 2Mb ROM)—including everything you get in more expensive personal organizers: telephone directory, appointment book, alarm clock, expense account, personal file system, and a spelling checker. It also has a real word processor, spreadsheet and BASIC. Plus, it can transfer data to and from a standard PC (software included) or connect to a modem or printer through a combination port (parallel and serial cables included). Its four-line, 40-character display is a lot more than the organizers have. The only limit is its 32K memory (a 128K replacement chip's available). It runs five hours, or sits six months, on four AA batteries (line-power adapter included). But, on top of all that, a tactile, touch-type keyboard makes this an honestly productive computer. ■

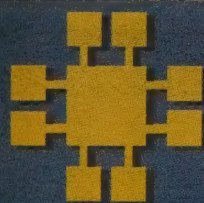
Writer Favorites Of 1990



Windows 3.0

Microsoft

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VGA PACKAGE

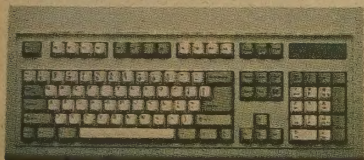


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• 16-BIT VGA CARD INCLUDED • COMPATIBLE WITH BOTH 8 AND 16-BIT BUS SLOTS • FULL REGISTER, BIOS, AND INTERFACE COMPATIBILITY • 640 X 480 RESOLUTION IN 16 COLORS, 320 X 200 IN 256 COLORS • HIGH RESOLUTION COLOR ANALOG MONITOR • AUTOMATIC MODE SWITCH RUNS VGA, EGA, CGA, MDA & HGC • INCLUDES SOFTWARE DRIVERS FOR POPULAR SOFTWARE PROGRAMS
VGA-PKG

101-KEY BTC KEYBOARD

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• FOR 8088, 286, 386 AND COMPATIBLES • AUTO-SENSE FOR 8088 OR 286/386 • AUTO-REPEAT • EXTRA LARGE SHIFT AND RETURN KEYS • LED INDICATORS FOR SCROLL, CAPS AND NUMBER LOCK

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- 43.1MB • 28MS • 5-1/4"
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ST-157A.....\$299.00

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	50	250
N-MD2D BULK 3 LBS. 360K 5-1/4" DS/DD DISKS	.49 EA	.39 EA
N-MD2H BULK 3 LBS. 1.2MB 5-1/4" DS/HD DISKS	.95 EA	.79 EA
N-3.5DS BULK 3 LBS. 720K 3-1/2" DS/DD DISKS	1.19 EA	.99 EA

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- VERY SMALL FOOTPRINT (16"L X 8"W X 12"H)
- ACCOMMODATES 8088, MINI 286/386 MOTHERBOARDS
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- 200 WATT POWER SUPPLY • 2-DIGIT LED SPEED DISPLAY
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- LEDS FOR HARD DISK, TURBO & POWER-ON • STEEL CASE WITH RUBBER FEET

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HOLDS 3 FLOPPY, 4 HALF-HEIGHT DRIVES OR 2 FULL HEIGHT DRIVES

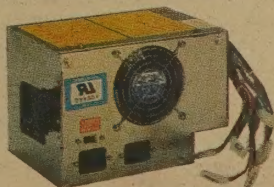
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HOLDS 11 HALF-HEIGHT, OR 3 FULL-HEIGHT AND 5 HALF-HEIGHT DRIVES

CASE-200.....\$499.95

POWER SUPPLY

\$89⁹⁵



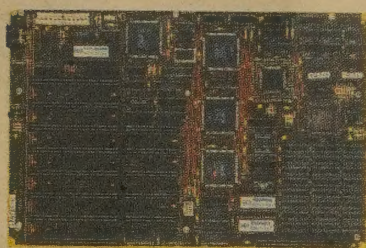
- 200 WATT • UL APPROVED
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\$399⁹⁵

• NORTON SI 15.3 • LANDMARK AT SPEED 20.8

• USES 16MHZ INTEL 80386SX CPU • EXPANDABLE TO 8MB ON BOARD • 512K/1MB USING 18/36 256KX1 DRAMS OR 2/4 256K SIPS OR 4/8 256KX4 AND 2/4 256KX1 DRAMS; 2/4MB USING 18/36 1MBX1 DRAMS OR 2/4 1MB SIPS; 6/8MB USING 36 1MBX1 DRAMS AND 2/4 1MB SIPS • AMI BIOS • CHOOSE FAST 0 WAIT STATE OR 1 WAIT STATE FOR ECONOMICAL USE OF SLOWER RAM • FIVE 16-BIT & THREE 8-BIT EXPANSION SLOTS • CHIPS & TECHNOLOGY NEW ENHANCED ADVANCED TECHNOLOGY (NEAT) CHIPSET • SOCKET FOR 80387SX-16 COPROCESSOR • 8.5" X 13" SIZE FITS IN MINI-AT AND FULL-SIZE AT CASES
MCT-386SX

"FASTEST NON-CACHING BOARD WE TESTED" BYTE MAGAZINE, APR 90

MINI 25MHZ 386

\$799

• NORTON SI 26.6 • LANDMARK AT SPEED 30.1

• MEMORY INTERLEAVING FOR NEAR ZERO WAIT STATES • SOCKETED FOR 80387 COPROCESSOR • USES 80NS 256K OR 1MB SIP/DIP RAMS • 16MB RAM CAPACITY: 8MB ON BOARD, 8MB USING OPTIONAL RAM CARD (0KB INSTALLED) • ON-BOARD RAM: 1/2MB USING 4/8 256K SIPS OR 4/8MB USING 4/8 1MB SIPS • FIVE 16-BIT SLOTS, TWO 8-BIT SLOTS, ONE 32-BIT SLOT FOR PROPRIETARY RAM CARD • STANDARD XT HOLE SPACING • AMI BIOS • SIZE: 8.5" X 13"

MCT-M386-25 25MHZ VERSION.....\$799.00

MCT-M386-M25 PROPRIETARY RAM CARD.....\$99.95

1/2MB USING 36/72 256KX1 DRAMS OR 4/8MB USING 36/72 1MBX1 DRAMS

MINI 25MHZ CACHE 386

\$1199

• NORTON SI 30.5 • LANDMARK AT SPEED 40.7

• 25MHZ 80386 • INCLUDES RAM CARD (LISTED BELOW) • FEATURES INTEL 82385 CACHE CONTROLLER • AMI BIOS • CHIPS & TECHNOLOGY CHIPSET • INCLUDED 32-BIT RAM CARD ALLOWS MAXIMUM FLEXIBILITY IN SELECTING FROM 1 TO 16MB RAM (0KB INSTALLED) • SHADOW RAM LETS YOU COPY ROM BIOS INTO FAST 32-BIT MEMORY • SOCKETED FOR 80387 OR WEITEK 3167 COPROCESSORS

MCT-C386-25.....\$1199.00

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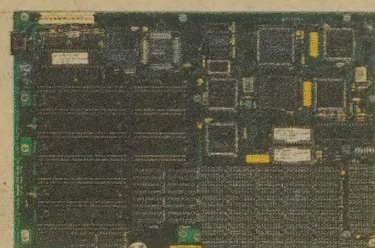
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12.5MHZ 286

\$199⁹⁵

• NORTON SI 14.3 • LANDMARK AT SPEED 16.5

• AT-COMPATIBLE • 6/12.5MHZ KEYBOARD SELECTABLE SPEEDS • EXPANDABLE TO 4MB ON BOARD; 512K/1MB USING 18/36 256KX1 DRAMS; 2/4MB USING 18/36 1MBX1 DRAMS (0KB INSTALLED) • MEMORY SPEED: 120NS FOR 1 WAIT, 100NS FOR 0 WAIT

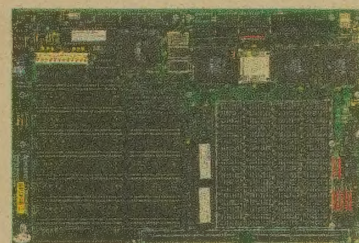
MCT-M286-12

10MHZ 8088

\$99⁹⁵

• NORTON SI 2.1

• NOW USES LOW-COST 256K X 4 1MB DRAMS • XT COMPATIBLE; OPERATES AT 4.77/10MHZ • KEYBOARD SELECTABLE CLOCK SPEEDS • SOCKET FOR 8087-1 CO-PROCESSOR • 8 SLOTS • MCT BIOS • 640K RAM CAPACITY (0KB INSTALLED)
MCT-TURBO-10



20MHZ 286

\$389⁹⁵

• NORTON SI 20.3 • LANDMARK AT SPEED 26.3

• NEAT CHIPSET HAS POWER TO COMPETE WITH 386 SYSTEMS • EXPANDABLE FROM 512K TO 8MB; 512K/1MB USING 18/36 256KX1 DRAMS OR 2/4 256K SIPS; 2/4MB USING 18/36 1MBX1 DRAMS OR 2/4 1MB SIPS; 6/8MB USING 36 1MBX1 DRAMS AND 2/4 1MB SIPS • 20/10MHZ KEYBOARD SELECTABLE SPEEDS • AMI BIOS • SHADOW RAM AND PAGE INTERLEAVED MEMORY • FAST 0 WAIT STATE OR 1 WAIT STATE FOR SLOWER RAM • 8.5" X 13" FITS MOST XT, MINI-AT & FULL SIZE AT CASES • FIVE 16-BIT & THREE 8-BIT SLOTS • SOCKET FOR 80287-12 MATH CO-PROCESSOR

MCT-M286-20N

16MHZ 286 W/NEAT CHIPSET

\$289⁹⁵

• 16/10MHZ SELECTABLE SPEEDS • USES 80287-10 MATH CO-PROCESSOR

MCT-M286-16N NORTON SI 16.2 / LANDMARK AT 21.1

12MHZ 286 W/NEAT CHIPSET

\$269⁹⁵

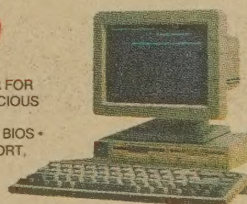
• 12/8MHZ KEYBOARD SELECTABLE SPEEDS • USES 80287-8 MATH CO-PROCESSOR

MCT-M286-12N NORTON SI 12.0 / LANDMARK AT 15.5

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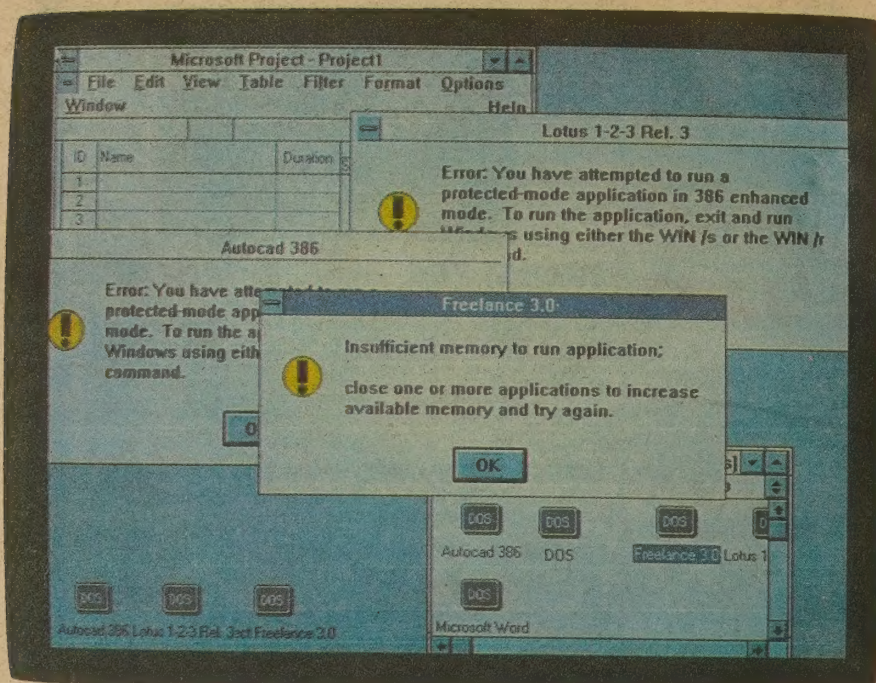
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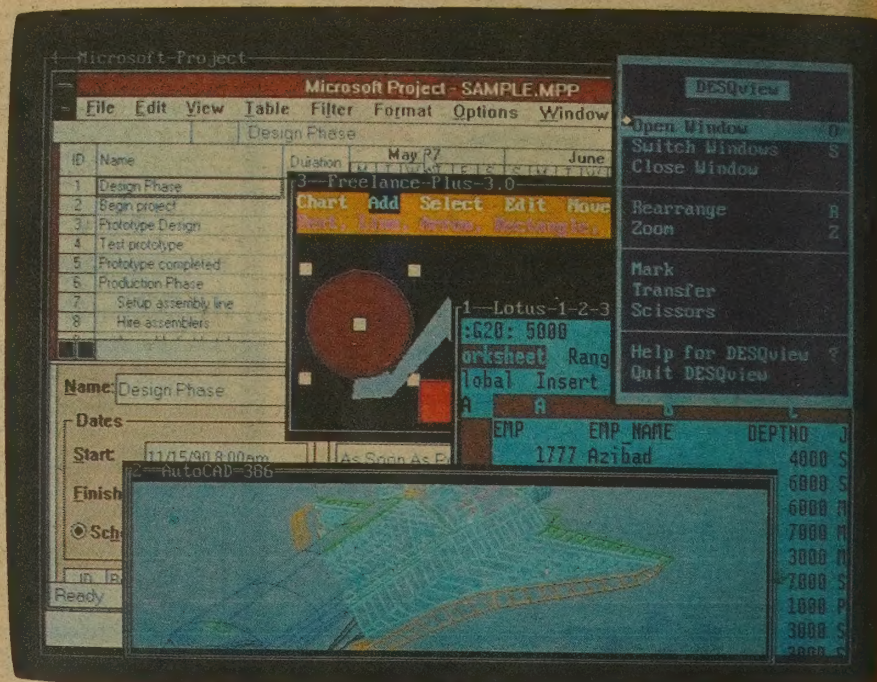
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This comparison was made using a system like the one you might run: Both shots show an ALR FlexCache 33/386 running DOS 3.3 with VGA display adaptor, Novell NetWare v3.01 Rev. A, with IPX/SPX v3.01 Rev A, Microsoft Mouse 7.00, and Microsoft SMARTDrive v3.03 disk cache. Buffers were set to 20. For the Windows screen, we ran Microsoft Windows 3 HMEM.SYS and EMM386.SYS. For the DESQview screen, we ran QEMM 386 v5.1.

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